



Wheatland County Equipment Work Order

Work Order #: 1306
Unit #: 14611
Serial # CAT0014MLR9J01266

INSTRUCTIONS

Date: 10/14/2020
Odometer Reading: 9465
Scheduled Date: 10/14/2020

Completed Date: 0/0/0000

Task Exceptions:

Activity:

Action Taken: Incomplete
Incomplete
9881 HRS
Check seal on driveshaft (oil leak)

Have all actions been completed? No

Date	Cost Type	Description	Quantity	Rate	Amount
Replace Transmission output shaft seal			Labour:		\$0.00
Replace Differential Input shaft seal			Materials:		\$0.00
Install Snow equipment.			Fuel:		\$0.00
			Other:		\$0.00
			TOTAL:		\$0.00



Wheatland County Equipment Work Order

Work Order #: 1232

Unit #: 14611

Serial # CAT0014MLR9J01266

INSTRUCTIONS

Date: 9/24/2020

Odometer Reading: 9465

Scheduled Date: 9/24/2020

Completed Date: 0/0/0000

Task Exceptions:

Activity:

Action Taken: Incomplete

9839 HRS Check oil leak

Rory Fraser

Have all actions been completed? No

Date	Cost Type	Description	Quantity	Rate	Amount
Found Coolant leak from Oil cooler hose					
Tightened hose clamp					
Pressure tested					
Labour:					\$0.00
Materials:					\$0.00
Fuel:					\$0.00
Other:					\$0.00
TOTAL:					\$0.00



Wheatland County Equipment Work Order

Work Order #: 718

Unit #: 14611

Serial # CAT0014MLR9J01266

INSTRUCTIONS

Date: 4/27/2020

Odometer Reading: 0

Scheduled Date: 4/27/2020

Completed Date: 0/0/0000

Task Exceptions:
9294 HR'S

Activity: 250 250 MAINTENANCE HOURS

Action Taken:	Incomplete	Replace Oil Filter / Engine Oil
	Incomplete	Replace Fuel Filters
	Incomplete	Replace Air Filter
	Incomplete	Replace Cab Filters
	Incomplete	Take Engine Oil Sample

Have all actions been completed? No

Date	Cost Type	Description	Quantity	Rate	Amount
April 28/2020		Riley Reardon			
			Labour:		
			Materials:		\$0.00
			Fuel:		\$0.00
			Other:		\$0.00
			TOTAL:		\$0.00

- Completed 250hr Engine service.

- replaced Engine oil + submitted sample.

- replaced oil filter

- replaced fuel filters

- replaced air filters.

- Removed wing + mast assembly. hardware in cab. moved equipment to yard in front of 633 plw.



Wheatland County Equipment Work Order

Work Order #: 718

Unit #: 14611

Serial # CAT0014MLR9J01266

INSTRUCTIONS

Date: 5/20/2020

Odometer Reading: 0

Scheduled Date: 4/27/2020

Completed Date: 4/28/2020

Task Exceptions:

9294 HR'S

RILEY R

Activity: 250 250 MAINTENANCE HOURS

Action Taken:	Complete	Replace Oil Filter / Engine Oil
	Complete	Replace Fuel Filters
	Complete	Replace Air Filter
	Complete	Replace Cab Filters
	Complete	Take Engine Oil Sample
	Complete	Remove Wing

Have all actions been completed? Yes

Date	Cost Type	Description	Quantity	Rate	Amount
5/4/2020	Materials	CATF1R1808			
5/4/2020	Materials	CATF1R0762	1.00	31.01000	\$31.01
5/4/2020	Materials	CATF326-1644	1.00	25.92000	\$25.92
5/4/2020	Materials	CATF2453819	1.00	33.62000	\$33.62
5/4/2020	Materials	CATF2453818	1.00	45.12000	\$45.12
			1.00	32.67000	\$32.67
Labour:					\$0.00
Materials:					\$168.34
Fuel:					\$0.00
Other:					\$0.00
TOTAL:					\$168.34



Wheatland County Equipment Work Order

Work Order #: 898

Unit #: 14611

Serial # CAT0014MLR9J01266

INSTRUCTIONS

Date: 6/17/2020

Odometer Reading: 0

Scheduled Date: 6/17/2020

Completed Date: 0/0/0000

Task Exceptions:

9558 HR'S

Rory Fraser

Activity: 500 500 HOUR SERVICE

Action Taken:	Incomplete	Check Belts
	Incomplete	Take Coolant Sample
	Incomplete	Take Hydraulic Oil Sample
	Incomplete	Replace Hydraulic Oil Filters
	Incomplete	Take Tandems Oil Samples
	Incomplete	Clean Tandem Breathers
	Incomplete	Clean Transmission Breathers
	Incomplete	Check Oil Level Front Wheel Bearings

Have all actions been completed? No

Date	Cost Type	Description	Quantity	Rate	Amount
		Perform 500 hr service			
		Sample Engine	Labour:		\$0.00
		Transmission	Materials:		\$0.00
		hydraulics	Fuel:		\$0.00
		Tandems	Other:		\$0.00
		Coolant	TOTAL:		\$0.00

Check front wheel bags

Check Circle drive

Change engine oil & filters

Change cab filters

Change hydraulic filters

Clean Tandem breathers



SERVICE INVOICE

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Finning (Canada), a division of Finning International Inc.

6735 - 11 STREET N.E.
CALGARY, AB T2E 7H9
(403) 275-3340
(403) 274-8608 FAX

PAYER CA-0000950
RURAL MUNICIPALITIES OF ALBERTA
2510 SPARROW DRIVE
NISKU AB T9E 8N5

CUSTOMER

Commitment

CUSTOMER LOCATION CA-0033349
RMA WHEATLAND COUNTY WHE100
2510 SPARROW DRIVE
NISKU AB T9E 8N5

Date 13/01/20
Invoice Number 961796219
Invoice Total \$1,665.30
Payment Terms NET 30 DAYS

Due Date 12/02/20
Currency CANADIAN DOLLAR
Customer Tax Exemption No.
Customer Reference No. PO05969
Order Date 18/12/19
Order Number 0060659752
Finning Contact AMANDA ROBERTS 403-295-5771
Customer Contact DARWIN 403-333-6887
Customer Commitment Date 00/00/00
Actual Completion Date 10/01/20

Make CAT
Model 14M
Serial Number R9J01266
Unit Number R9J01266
Meter Reading H 8834.00
(18/12/19)

Line No.	Qty	Item No.	Description	U/M	Sales Price
10	14M		** TA2 INSPECTION PERFORM IN FIELD		
	14M				
		Customer Reference No.	PO05969		
		UNIT: 14611			
		LOCATION: MAIN SHOP			
		REPAIR REQUEST: PERFORM TA2 INSPECTION			
		REPAIR DETAILS:			
		DEC 20			
		• STARTED AND WARMED MACHINE			
		• COMPLETED TA2 INSPECTION			
8.00	753T-540- 14M	-ACZ-001	JOURNEYMAN FIELD	EA	1,576.00
	753T-540- 14M	-ACZ-001	JOURNEYMAN TRAVEL	EA	
1.00	14M		CARBON WASTE & RECYCLING FEE	EA	10.00
	14M				

PAYMENT ADDRESS CHANGE NOTIFICATION: PLEASE REMIT TO P.O. BOX 2405, EDMONTON, AB T5J 2S1.

GST/HST Registration Number: 101801561 RT0001

This invoice is subject to and incorporates by reference the Finning Terms and Conditions which are attached to the quote and/or delivery note and govern this transaction between Finning and Customer to the exclusion of all other contractual terms and conditions. In the event of a conflict between the aforementioned Terms and Conditions, this invoice, the order confirmation or any other documentation associated with this transaction, the Terms and Conditions shall prevail.

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(346-6464)



SERVICE INVOICE

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Finning (Canada), a division of Finning International Inc.

6735 - 11 STREET N.E.
CALGARY, AB T2E 7H9
(403) 275-3340
(403) 274-8608 FAX

Date 13/01/20
Invoice Number 961796219
Invoice Total \$1,665.30
Payment Terms NET 30 DAYS

Due Date 12/02/20

CUSTOMER NUMBER CA-0000950

Line No.	Qty	Item No.	Description	U/M	Sales Price
			Labor		1,576.00
			Miscellaneous		10.00
			Service Total		1,586.00
			Order total		1,586.00
			GST		79.30
			Invoice Total		\$1,665.30

Thank you for your business.

Please Remit Payment to:
RMA

PAYMENT ADDRESS CHANGE NOTIFICATION: PLEASE REMIT TO P.O. BOX 2405, EDMONTON, AB T5J 2S1.
GST/HST Registration Number: 101801561 RT0001

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Wheatland County Equipment Work Order

Work Order #: 496

Unit #: 14611

Serial # CAT0014MLR9J01266

INSTRUCTIONS

Date: 2/14/2020
Odometer Reading: 0
Scheduled Date: 2/14/2020

Task Exceptions:

9054 hrs

Completed Date: 0/0/0000

Activity:

Action Taken: Incomplete 9035 HRS
Incomplete 1000 HR Service

Have all actions been completed? No

Date	Cost Type	Description	Quantity	Rate	Amount
- 1,000 hrs service.					
- CHANGED OIL ENG (And filters fuel AIR, oil)					
- Checked Belts					
- Coolant Sample					
- HYD Sample					
- HYD filters					
- TANDUM Sample					
- TANDUM oil change. (Both Sides)					
- TRANS Sample					
- TRANS/Diff oil change.					
- Cleaned Breathers Tandem's and TRANS					
- checked oil level front wheel BEARINGS, And circle drive					
- Cleaned AND checked TRANS SCREENS.					
- Replaced AIR Line from Governor to compressor.					
- Installed ARMOUR ON EXPANSION TANK Hose.					
- Repositioned UNLOADER VALVE Hose					
- Replaced DAMAGED cotter pin on wing.					
- Added coolant (Extender)					
- ADJUSTED BLADE slide.					
- Removed SHIMS (BLADE lift sockets)					

Labour: \$0.00
Materials: \$0.00
Fuel: \$0.00
Other: \$0.00
TOTAL: \$0.00

(1000 hrs on oil sample was DIRTY changed oil at 9054 hrs)





Wheatland County Equipment Work Order

Work Order #: 392

Unit #: 14611

Serial # CAT0014MLR9J01266

INSTRUCTIONS

Date: 20/01/2020

Odometer Reading: 0

Scheduled Date: 20/01/2020

Completed Date: 00/00/0000

Activity: REP REPAIRS

Action Taken:

Task Exceptions:

Have all actions been completed? Yes

Date	Cost Type	Description	Quantity	Rate	Amount
- Circle Drive was leaking when cold (-30) I ordered parts to fix, but it has not leaked since. Operator is to check oil level for a couple of weeks, and let us know if leak occurs again.			Labour:		\$0.00
			Materials:		\$0.00
			Fuel:		\$0.00
			Other:		\$0.00
			TOTAL:		\$0.00

INSPECTION SUMMARY

CUSTOMER	UNIT NO.	MAKE	MODEL	SERIAL #	HOURS/MILES
WHEATLAND COUNTY	14611	CAT	14M	R9J01266	8834

DEFECTS

1. INSTALL ARMOUR ON GREEN EXPANSION TANK HOSE - INSPECT/ REPLACE HOSE
2. REPOSITION UNLOADER VALVE HOSE AT AIR COMPRESSOR - RUBBING ON COMPRESSOR INLET PIPE
3. REPLACE DAMAGED COTTER KEY ON WING TILT ARM AT REAR MOUNT
4. SMALL BULBS IN FRT HEADLIGHTS BURNT OUT - RR UPPER CAB LIGHT NW
5. NOV 19 COOLANT SAMPLE RECOMENDS TO ADD COOLANT ADDITIVE ELC EXTENDER (CAT P/N 119-5152)
6. BLADE SLIDES LOOSE - ADJUST
7. REMOVE SHIMS FROM BLADE LIFT CYL SOCKETS AS REQUIRED
8. TANDEM OIL VERY DARK IN COLOR - CHECK AND VERIFY OIL HISTORY

9054 hrs



Wheatland County Equipment Work Order

Work Order #: 420

Unit #: 14611

Serial # CAT0014MLR9J01266

INSTRUCTIONS

Date: 27/01/2020

Odometer Reading: 0

Scheduled Date: 27/01/2020

Completed Date: 00/00/0000

Task Exceptions:

8064 HRS

Activity: REP REPAIRS

Action Taken: Incomplete

REPLACE ELEPHANT EAR

Have all actions been completed? No

Date	Cost Type	Description	Quantity	Rate	Amount
<div>- Repaired Flat/leaking tire</div> <div>- changed bent elephant ear</div>			Labour:		\$0.00
			Materials:		\$0.00
			Fuel:		\$0.00
			Other:		\$0.00
			TOTAL:		\$0.00



Wheatland County Equipment Work Order

Work Order #: 109
Unit #: 14611
Serial #14MLR9J0126

INSTRUCTIONS

Date: 10/21/2019
Odometer Reading: 0
Scheduled Date: 0/0/0000

Task Exceptions:

6446 hrs

Completed Date: 0/0/0000

Activity:

Action Taken: Incomplete

8445 HRS 500 HR Service Replace grease fitting

Have all actions been completed? No

Date	Cost Type	Description	Quantity	Rate	Amount
			Labour:		\$0.00
			Materials:		\$0.00
			Fuel:		\$0.00
			Other:		\$0.00
			TOTAL:		\$0.00

500 hrs Service

- Eng oil + FILTERS oil, fuel, AIR
- checked Belts
- coolant sample
- hydraulic sample
- Eng oil ~~sample~~ sample
- Hyd filter replaced
- Torndurn samples
- trans samples
- Clean Trans breathers
- cleaned Torndurn breathers
- checked oil level front wheel bearings
- checked oil level circle drive
- fixed grease nipple. (retapped)



Wheatland County Equipment Work Order

Work Order #: 290
Unit #: 14611
Serial #14MLR9J0126

INSTRUCTIONS

Date: 12/9/2019
Odometer Reading: 0
Scheduled Date: 0/0/0000

Completed Date: 0/0/0000

Task Exceptions:

Activity:

Action Taken: Incomplete
Incomplete 8800 HRS 250 HR Oil Change
LR Tire - looses air daily

Have all actions been completed? No

Date	Cost Type	Description	Quantity	Rate	Amount
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- 250hr engine service

- changed engine oil
- Changed engine^{oil} Filter(1)
- changed Fuel Filters (2)
- changed inner + outer cab Filters
- changed inner + outer intake Filters
- took oil sample
- repaired leaking tire.

Labour:	\$0.00
Materials:	\$0.00
Fuel:	\$0.00
Other:	\$0.00
TOTAL:	\$0.00

County of Wheatland No. 16
Parts Requisition

№ 2257

[illegible]

Issued by: _____

Approved by: _____



Equipment Work Order

11:48 AM

Equipment: 14611

2014 CAT 14M Grader

Serial:

Details: 2014 FINNING,

Location: ,

oads graders/PW roads grs

INSTRUCTIONS

Date: 8/28/2019 8:44 AM Due:

Sched.:

Taken By:

wt_MHaavind

☒ Done ☐ Urgent

Request By: Melissa Haavind

Assign To:

Rory Fraser

Request: 250 HR Service 8269 HRS

PM Task:

Details:

Vendor Name:

Vendor Info:

2014 CAT 14M Grader,

14611

Activity

Description

Comments



FLEETREP Fleet Repairs

COMPLETION

Date Done: 10/04/2019

In:

Activity:FLEETREP



Done

Current On Record

When WO Done

Done By: Rory Fraser

Hourmeter:

5,326.0

Action Taken:

Odometer:

0.0



Equipment Work Order

9:45 AM

Equipment: 14611

2014 CAT 14M Grader

Serial:

Details: 2014 FINNING,

roads graders/PW roads gr Location:

INSTRUCTIONS

Date: 07/08/2019 9:43 AM Due: Sched.:
Request By: Terry Smith
Request: REPLACE COUNTER SHIFT LOCK SWITCH 8160 HRS
Details: REPLACE COUNTER SHIFT LOCK SWITCH 8160 HRS

Taken By: wt_TSmith ☐ Done ☐ Urgent
Assign To: Robin Seely
PM Task:

Vendor Name:

Vendor Info:

2014 CAT 14M Grader,

14611

Activity	Description	Comments
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☐ FLEETREP Fleet Repairs

COMPLETION

Date Done: In: Activity: FLEETREP ☐ Done Current On Record When WO Done
Done By: Hourmeter: 5,326.0
Action Taken: Odometer: 0.0

REPLACE COUNTER SHIFT LOCK SWITCH 8160 HRS

Date	Empl #	Name	Start Time	Hours	Time Code	Activity/Notes
					REG OT1 OT2 SHF STB BNK	
					REG OT1 OT2 SHF STB BNK	
					REG OT1 OT2 SHF STB BNK	



Equipment Work Order

11:31 AM

Equipment: 14611

2014 CAT 14M Grader

Serial:

Details: 2014 FINNING,

oads graders/PW roads gr Location:

INSTRUCTIONS

Date: 2/04/2019 11:36 AM Due: Schd.: Taken By: wt_MHaavind ☒ Done ☐ Urgent
Request By: Melissa Haavind Assign To: Darwin Armitage
Request: 2000 HR Service 8045 HRS PM Task:

Details: Valve Set, TA Repairs
Valve set/injector adjustment.
Rear window replaced. All oil samples taken. Drawbar adjustment (Shims removed)
Circle adjustment, blade slides adjusted. Wing cylinder replaced.

Vendor Name:

Vendor Info:

2014 CAT 14M Grader,

14611

Activity	Description	Comments
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☐ FLEETREP Fleet Repairs

COMPLETION

Date Done: 2/22/2019 In: Activity: FLEETREP ☒ Done Current On Record When WO Done
Done By: Darwin Armitage Hourmeter: 5,326.0
Action Taken: Odometer: 0.0

Valve Set, TA Repairs
Valve set/injector adjustment.
Rear window replaced. All oil samples taken. Drawbar adjustment (Shims removed)
Circle adjustment, blade slides adjusted. Wing cylinder replaced.



SERVICE INVOICE

// COPY //

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CALGARY, AB T2E 7H9
(403) 275-3340
(403) 274-8608 FAX

PAYER CA-0000950
RURAL MUNICIPALITIES OF ALBERTA
2510 SPARROW DRIVE
NISKU AB T9E 8N5

CUSTOMER

Commitment

CUSTOMER LOCATION CA-0033349
RMA WHEATLAND COUNTY WHE100
2510 SPARROW DRIVE
NISKU AB T9E 8N5

14611

Date 19/10/18
Invoice Number 961518572
Invoice Total \$1,833.62
Payment Terms NET 30 DAYS

Due Date 18/11/18
Currency CANADIAN DOLLAR
Customer Tax Exemption No.
Customer Reference No. PO03360
Order Date 19/09/18
Order Number 0060556843
Finning Contact ERIK SHUTE 403-295-5706
Customer Contact WAYNE CLYNE 403-333-6870
Customer Commitment Date 00/00/00
Actual Completion Date 23/10/18

Make CAT
Model 14M
Serial Number R9J01266
Unit Number R9J01266
Meter Reading H 7485.00
(19/09/18)

Line No.	Qty	Item No.	Description	U/M	Sales Price
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20		14M	** TA2 INSPECTION PERFORM IN FIELD		
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Customer Reference No.
COMPLAINT: COMPLETE TA INSPECTION

CAUSE-PRIOR TO WARRANTY EXPIRY

CORRECTION-PERFORM TA INSPECTION OPEN WORK ORDERS FOR WARRANTABLE REPAIRS.

5.00	320271102	STANDARD SOS ANALYSIS -OIL	PC	116.70
	FIN001			

Fixed price Labor 1,629.60
Material 116.70

Service Total 1,746.30

Order total 1,746.30
GST 87.32

Invoice Total \$1,833.62

Thank you for your business.

PAYMENT ADDRESS CHANGE NOTIFICATION: PLEASE REMIT TO P.O. BOX 2405, EDMONTON, AB T5J 2S1.
GST/HST Registration Number: 101801561 RT0001

This Invoice is subject to and incorporates by reference the Finning Terms and Conditions which are attached to the quote and/or delivery note and govern this transaction between Finning and Customer to the exclusion of all other contractual terms and conditions. In the event of a conflict between the aforementioned Terms and Conditions, this invoice, the order confirmation or any other documentation associated with this transaction, the Terms and Conditions shall prevail.

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(346-6464)

Finning (Canada), a division of Finning International Inc.

1. FINNING'S RESPONSIBILITY FOR SERVICE WARRANTY

Finning warrants the work performed on equipment by its personnel to be free from defects for 365 days or 4,000 hours of operation, whichever occurs first. Finning will administer the warranty offered by the manufacturer (in addition to this Finning Service Warranty) with respect to parts repaired by Finning ("Repaired Parts"), new and re-used parts, remanufactured parts, components, exchange components and workmanship under normal use and service for 365 days or 4,000 hours of operation, whichever occurs first. This coverage begins from the date of completion of the initial work on the equipment. The following exceptions to the foregoing coverage apply:

- On highway vehicles inclusive of engines and/or transmissions powering on-highway vehicles are covered for 365 days, 100,000 kilometers or 4,000 hours of operation.
- Commercial or industrial gas/diesel engine applications, industrial transmissions, marine, petroleum and electric power generating equipment are covered for 365 days or 4,000 hours of operation.
- Commercial gas engines powering gas compression equipment are covered for 365 days or 8,000 hours of operation

Subject to the provisions of this Service Warranty, Finning will repair or replace, as it may elect, Repaired Parts, re-used parts, new parts, remanufactured parts, components, exchange components. Finning will redo workmanship where, upon inspection by Finning, the part(s) or workmanship, as the case may be, is determined by Finning in its discretion to be defective. Repairs will be performed to return the equipment to its pre-failure state (less normal wear and tear). In the case of an exchange component failure, the terms and conditions of Finning's Exchange Component Warranty shall apply. Such repair, replacement or redo includes servicemen's travelling expenses (such as meals and accommodation), travel time or transportation charges up to a maximum of \$1000.00. Amounts in excess of \$1000.00 for traveling expenses, travel time or transportation charges must be paid by the customer. Such repair also includes labour, replacement parts (where parts are covered by the manufacturer's warranty), and tools. Where required, as a result of a warrantable failure, parts and labour required for maintenance service such as engine tune-up, supplies and consumables such as oil, grease, fuel or filters are also covered.

2. ON TIME JOB COMPLETION GUARANTEE

Finning will agree to and supply a guaranteed completion date acceptable to Finning and the customer. If work is not completed by that date, Finning will pay by cheque or issue a credit to the customer's account, as determined by Finning, a sum equal to:

Cost of Repair	Amount Payable by Finning
\$0 - \$20K	4% of the cost of the repair per day late
\$20001K - \$50K	3% of the cost of the repair per day late
\$50001K - \$100K	2% of the cost of the repair per day late
\$100001K +	\$2000 per day late

It is provided however that under no circumstances will the amount payable by Finning under this On-Time Job Completion Guarantee exceed 20% of the repair cost. Under this On-Time Job Completion Guarantee, the first day that Finning is deemed to be late commences at 12:01 A.M. on the day following the day that Finning agreed to complete its work. Finning reserves the right to offset any amount payable by Finning under this Service Warranty against amounts owed or owing to Finning or any of its affiliates or subsidiaries by the customer pursuant to any contract or other legal relationship between the customer and Finning.

3. LIMIT OF FINNING'S RESPONSIBILITY WITH RESPECT TO SERVICE WARRANTY

(a) Warranty work will be completed by Finning during the regular working hours of Finning's service department. Warranty work may be completed outside regular working hours at the customer's request but the customer will pay the difference between Finning's overtime labour billing rates and its regular straight time labour billing rates notwithstanding any other provision hereof.

(b) Warranty work will be carried out at a time and location determined by Finning.

(c) It is a condition of this warranty that the customer properly maintain and operate the equipment to which this warranty applies and comply with all service requirements and recommendations of Finning or the manufacturer of the equipment (and intended uses prescribed by the manufacturer or Finning) including Finning scheduled oil sample service (SOS). The customer must notify Finning immediately of a warrantable failure or defect or that a suspected warrantable failure or defect exists, has occurred or is about to occur. Labour or parts furnished to perform repairs required as a result of improper or careless operating practices, failure to give timely notice of a failure or defect, lack of adequate operating maintenance (including daily maintenance), willful or accidental damage or normal wear and tear are not covered by this warranty and will be paid for by the customer at Finning's applicable labour billing rates and parts prices.

(d) Warranty claims will not be allowed unless Finning is notified at the time of failure and before the expiration of the service or parts warranty.

(e) The liability of Finning under this Service Warranty is limited to the repair or replacement of replaced parts (new, remanufactured or exchange), Repaired Parts, re-used parts and workmanship and to the provision of any amounts that may be specifically payable hereunder pursuant to section 2 hereof. Finning, its employees, agents and contractors shall not under any circumstances be liable for personal injuries (including death) to any person (including the customer) or for any loss or damage to property or business either direct, indirect or consequential whether to parts, components or the equipment or to any other property, caused or contributed to by a warrantable failure or defect, by any work performed by Finning, by the delivery, operation or possession of parts, components or the equipment by Finning or any other person, by defects in repaired parts, re-used parts or workmanship or comparable equipment provided hereunder, by any default or negligence of Finning, its employees, agents or contractors or by any other cause or reason whatsoever. In addition, in no case shall Finning be liable for loss of profits, special, consequential or indirect damages, loss of income or use of parts, components or the equipment or comparable equipment provided hereunder whether or not caused or contributed to by the negligence or default of Finning.

4. NO OTHER WARRANTIES

This Service Warranty is in lieu of all other warranties, either express, statutory or implied, arising from law or equity or any other source, including but not limited to any warranty of merchantability or fitness for a particular purpose.

5. TRANSFERABILITY

This Service Warranty is exclusive to the owner of the parts, components or the equipment at the time the work is performed and is not transferable to subsequent purchasers without the express written consent of Finning.

6. GEOGRAPHIC RESTRICTIONS

This Service Warranty applies only to parts, components and equipment repaired by Finning and located in Finning's Canadian dealership territory.

GST/HST Registration Number:

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Equipment Work Order

Serial:

Details: 2014 FINNING,

roads graders/PW roads gra Location:

INSTRUCTIONS

Date: 9/18/2018 11:27 AM Due:

Schd.:

Taken By:

wt_TSmith

☒ Done ☐ Urgent

Request By: Terry Smith

Assign To:

Rory Fraser

Request: REPAIR LIGHTS 7341 HRS

PM Task:

Details: REPAIR LIGHTS 7341 HRS
Test wiring, replace cab light and fuse.

Vendor Name:

Vendor Info:

2014 CAT 14M Grader,

14611

Activity	Description	Comments
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☐ FLEETREP Fleet Repairs

COMPLETION

Date Done: 10/25/2018

In:

Activity: FLEETREP

☒ Done Current On Record When WO Done

Done By: Rory Fraser

Hourmeter: 5,326.0

Action Taken:

Odometer: 0.0

REPAIR LIGHTS 7341 HRS
Test wiring, replace cab light and fuse.

Finning (Canada), a division of Finning International Inc.

6735 - 11 STREET N.E.
CALGARY, AB T2E 7H9
(403) 275-3340
(403) 274-8608 FAX

Date 19/02/18
Invoice Number
Invoice Total \$1,769.62
Payment Terms NET 30 DAYS

PAYER CA-0000950
ALBERTA ASSOCIATION OF MUNICIPAL
2510 SPARROW DRIVE
NISKU AB T9E 8N5

Due Date 21/03/18
Currency CANADIAN DOLLAR
Customer Tax Exemption No. P.O. 02016
Customer Reference No.
Order Date 22/01/18
Order Number 0060506596
Finning Contact IAN WARREN 4032955776
Customer Contact WAYNE CLYNE 403 333-6870
Customer Commitment Date 00/00/00
Actual Completion Date 07/02/18



CUSTOMER LOCATION CA-0033349
AAMD&C WHEATLAND COUNTY WHE100
2510 SPARROW DRIVE
NISKU AB T9E 8N5

Make CAT
Model 14M
Serial Number R9J01266
Unit Number R9J01266
Meter Reading 6331.00
(22/01/18)

14611

Line No.	Qty	Item No.	Description	LI/M	Sales Price
10		14M 14M	** TA2 INSPECTION PERFORM IN FIELD		
Customer Reference No.					
COMPLAINT: PERFORM TA INSPECTIONS					
CAUSE: CUSTOMER REQUEST					
CORRECTION:					
- TRAVEL TO MACHINE					
- START AND WARM MACHINE					
- COMPLETE TA INSPECTION					
*** FIXED PRICE 8 HOURS ***					
	5.00	320003294 77E0750	SOS OIL ANALYSIS	PC	105.35
Fixed price Labor					1,580.00
Material					105.35
Service Total					1,685.35

PAYMENT ADDRESS CHANGE NOTIFICATION: PLEASE REMIT TO P.O. BOX 2405, EDMONTON, AB T5J 2S1.
GST/HST Registration Number: 101801561 RT0001



SERVICE INVOICE PROFORMA

Page: 2 (4)

Finning (Canada), a division of Finning International Inc.

6735 - 11 STREET N.E.
CALGARY, AB T2E 7H9
(403) 275-3340
(403) 274-8608 FAX

Date 19/02/18
Invoice Number
Invoice Total \$1,769.62
Payment Terms NET 30 DAYS

CUSTOMER NUMBER CA-0000950

Due Date 21/03/18

Line No.	Qty	Item No.	Description	U/M	Sales Price
Order total					1,685.35
GST					84.27

Invoice Total \$1,769.62

Thank you for your business.

Finning (Canada) a division of Finning International Inc.

CUSTOMER: ALBERTA ASSOCIATION OF MUNICIPAL

Per: _____ (sign)

Per: _____ (sign)

Name: _____ (print)

Name: _____ (print)

Title: _____

Title: _____

Date: _____

Date: _____

PAYMENT ADDRESS CHANGE NOTIFICATION: PLEASE REMIT TO P.O. BOX 2405, EDMONTON, AB T5J 2S1.
GST/HST Registration Number: 101801561 RT0001

Equipment Work Order

3/16/2018

1:43 PM

W.O. #: EQ-18-0111

Equipment: 14611

Serial:

Details: 2014 FINNING,

Location:

2014 CAT 14M Grader



INSTRUCTIONS

Date: 2/08/2018 11:25 AM Due:

Request By: Terry Smith

Schd.:

Taken By:

wt_TSmith

☐ Done ☐ Urgent

Request: 2000 HRS SERVICE 6338 HRS

Assign To:

Ben Damen

Details:

2000 HRS SERVICE 6338 HRS

PM Task:

Changed R&L tandem oil & breathers, changed hydraulic oil & filters, changed transmission oil & filters, cleaned breather, circle motor oil and front spindle oil R & L
Repaired rear right tire, adjusted circle to pinion clearance. Replaced circle slides (2), replaced blade brass slides (top & bottom), adjusted circle shims, performed valve set, fixed broken rear fender bracket and greased.

Vendor Name:

Vendor Info:

2014 CAT 14M Grader,

14611

Activity

Description

Comments



FLEETREP Fleet Repairs

COMPLETION

Date Done:

In:

Activity: FLEETREP



Done

Current On Record

When WO Done

Done By:

Hourmeter:

5,326.0

Action Taken:

Odometer:

0.0

2000 HRS SERVICE 6338 HRS

Changed R&L tandem oil & breathers, changed hydraulic oil & filters, changed transmission oil & filters, cleaned breather, circle motor oil and front spindle oil R & L
Repaired rear right tire, adjusted circle to pinion clearance. Replaced circle slides (2), replaced blade brass slides (top & bottom), adjusted circle shims, performed valve set, fixed broken rear fender bracket and greased.



Equipment Work Order

3:31 PM

Equipment: 14611

2014 CAT 14M Grader

Serial:

Details: 2014 FINNING,

oads graders/PW roads gra Location:

INSTRUCTIONS

Date: 7/14/2017 2:29 PM Due: Sched.: Taken By: wt_TSmith ☒ Done ☐ Urgent
Request By: Terry Smith Assign To: LEHMANN, BRETT
Request: REPLACE BATTERIES 5326 HRS PM Task:
Details: REPLACE BATTERIES 5326 HRS

Vendor Name:

Vendor Info:

2014 CAT 14M Grader,

14611

Activity	Description	Comments
----------	-------------	----------

☐ FLEETREP Fleet Repairs

COMPLETION

Date Done:	8/04/2017	In:	Activity:	FLEETREP	<input checked="" type="checkbox"/> Done	Current On Record	When WO Done
Done By:	LEHMANN, BRETT				Hourmeter:	5,326.0	5,326
Action Taken:					Odometer:	0.0	

REPLACED 2 FAULTY BATTERIES 5326 HRS



Equipment Work Order

1:26 PM

Equipment: 14611

2014 CAT 14M Grader

Serial:

Details: 2014 FINNING,

roads graders/PW roads gr Location:

INSTRUCTIONS

Date: 6/14/2017 11:28 AM Due:

Schd.:

Taken By: wt_RLanthier

☒ Done ☐ Urgent

Request By: Rachelle Lanthier

Assign To: Rory Fraser

Request: CHANGE TRANS FILTER - 5165HRS

PM Task:

Details:

Vendor Name:

Vendor Info:

2014 CAT 14M Grader,

14611

Activity

Description

Comments



FLEETREP Fleet Repairs

COMPLETION

Date Done: 6/14/2017

In:

Activity: FLEETREP



Done Current On Record When WO Done

Done By: Rory Fraser

Hourmeter: 4,877.0

Action Taken:

Odometer: 0.0

SERVICE CALL TO GLENMORE SHOP
CHANGE TRANSMISSION FILTERS
CLEAR CODES

Finning (Canada), a division of Finning International Inc.

6735 - 11 STREET N.E.
CALGARY, AB T2E 7H9
(403) 275-3340
(403) 274-8608 FAX

PAYER **CA-0000950**
ALBERTA ASSOCIATION OF MUNICIPAL
2510 SPARROW DRIVE
NISKU AB T9E 8N5



CUSTOMER LOCATION **CA-0033349**
AAMD&C WHEATLAND COUNTY WHE100
2510 SPARROW DRIVE
NISKU AB T9E 8N5

Date 16/02/17
Invoice Number
Invoice Total \$1,645.56
Payment Terms PARTS & SERVICES DUE DATE

Due Date 31/03/17
Currency CANADIAN DOLLAR
Customer Tax Exemption No.
Customer Reference No. PO#
Order Date 12/12/16
Order Number 0060429182
Finning Contact DANIELLE PHELPS 403 807 9060
Customer Contact WAYNE CLYNE 403 333 6870
Customer Commitment Date 00/00/00
Actual Completion Date 14/02/17

Make CAT
Model 14M
Serial Number R9J01266
Unit Number R9J01266
Meter Reading 4450.00
(12/12/16)

14611

Line No.	Qty	Item No.	Description	U/M	Sales Price
----------	-----	----------	-------------	-----	-------------

10 14M ** TA2 INSPECTION PERFORM IN
14M FIELD

Customer Reference No. PO#
PERFORM TA INSPECTION AS PER CUSTOMERS REQUEST

5.00 320003294 SOS OIL ANALYSIS 20% OFF PC
77E0750
753T-540- -ACZ-001 JOURNEYMAN FIELD
14M
753T-540- -ACZ-001 JOURNEYMAN TRAVEL
14M

Fixed Price
Service Total 1,567.20

Order total 1,567.20
GST 78.36

Invoice Total \$1,645.56

Thank you for your business.

PAYMENT ADDRESS CHANGE NOTIFICATION: PLEASE REMIT TO P.O. BOX 2405, EDMONTON, AB T5J 2S1.
GST/HST Registration Number: 101801561 RT0001

Finning (Canada), a division of Finning International Inc.

6735 - 11 STREET N.E.
CALGARY, AB T2E 7H9
(403) 275-3340
(403) 274-8608 FAX

Date 16/02/17
Invoice Number
Invoice Total \$1,645.56
Payment Terms PARTS & SERVICES DUE DATE

Due Date 31/03/17

CUSTOMER NUMBER CA-0000950

Line No.	Qty	Item No.	Description	U/M	Sales Price
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Finning (Canada) a division of Finning International Inc. CUSTOMER: ALBERTA ASSOCIATION OF MUNICIPAL

Per: _____ (sign)	Per: _____ (sign)
Name: _____ (print)	Name: _____ (print)
Title: _____	Title: _____
Date: _____	Date: _____

PAYMENT ADDRESS CHANGE NOTIFICATION: PLEASE REMIT TO P.O. BOX 2405, EDMONTON, AB T5J 2S1.
GST/HST Registration Number: 101801561 RT0001



Equipment Work Order

1:53 PM

Equipment: 14611

2014 CAT 14M Grader

Serial:

Details: 2014 FINNING,

roads graders/PW roads gr Location:

INSTRUCTIONS

Date: 08/09/2015 12:41 PM Due: Sched.: Taken By: wt_MHaavind ☒ Done ☐ Urgent
 Request By: Melissa Haavind Assign To: Kevin Katterhagen
 Request: 2000 HR Service PM Task:
 Details:

Vendor Name:

Vendor Info:

2014 CAT 14M Grader,

14611

Activity	Description	Comments
<input type="checkbox"/> FLEETREP	Fleet Repairs	

COMPLETION

Date Done: 03/03/2016 In: Activity: FLEETREP ☒ Done Current On Record When WO Done
 Done By: Kevin Katterhagen Hourmeter: 0.0
 Action Taken: Odometer: 0.0
 2000 HR service

Posted Transactions

Date	Trans Type	Batch	Description	Qty	Units	Rate	Amount
23/08/2015	Employee Ben	2015-000479	KATTERHAGEN, KEVIN, LTD, Long term disability benefits	0.00		0.000	5.95
23/08/2015	Time Sheets	2015-000431	KATTERHAGEN, KEVIN	5.00	hr	41.001	205.01
23/08/2015	Employee Ben	2015-000479	KATTERHAGEN, KEVIN, DENN, Dental benefits	0.00		0.000	8.76
23/08/2015	Employee Ben	2015-000479	KATTERHAGEN, KEVIN, WCB, Workers Compensation benefits	0.00		0.000	4.23
23/08/2015	Time Sheets	2015-000431	KATTERHAGEN, KEVIN	7.00	hr	41.001	287.01
23/08/2015	Employee Ben	2015-000479	KATTERHAGEN, KEVIN, EHCN, Extended Health benefits	0.00		0.000	18.01
23/08/2015	Employee Ben	2015-000479	KATTERHAGEN, KEVIN, CRIT, CRITICAL ILLNESS	0.00		0.000	0.54

EQ-15-0946

Finning (Canada) a division of Finning International Inc.

6735 - 11 STREET N.E.
CALGARY, AB T2E 7H9
(403) 275-3340
(403) 274-8608 FAX

PAYER **CA-0000950**
ALBERTA ASSOCIATION OF MUNICIPAL
2510 SPARROW DRIVE
NISKU AB T9E 8N5



CUSTOMER LOCATION **CA-0033349**
AAMD&C WHEATLAND COUNTY WHE100
2510 SPARROW DRIVE
NISKU AB T9E 8N5

Date 05/02/16
Invoice Number
Invoice Total \$2,098.95
Payment Terms PARTS & SERVICES DUE DATE

Due Date 31/03/16
Currency CANADIAN DOLLAR
Customer Tax Exemption No.
Customer Reference No. PO #
Order Date 14/12/15
Order Number 0060365778
Finning Contact DANIELLE PHELPS 403 807 9060
Customer Contact WAYNE CLYNE 403 333 6870
Customer Commitment Date 14/12/15
Actual Completion Date 14/12/15

Make CAT
Model 14M
Serial Number R9J01266
Unit Number R9J01266
Meter Reading (15/12/15) 2476.00

14611

Line No.	Qty	Item No.	Description	U/M	Sales Price
----------	-----	----------	-------------	-----	-------------

10 14M ** TA2 INSPECTION PERFORM IN
14M FIELD

Customer Reference No. R9J01266
TA2 inspection

Traveled to machine
Performed inspection
Sample fluids

\$1999.00 Winter works special
\$0 Travel

1 753T-540- -ACZ-001 JOURNEYMAN FIELD
14M
5 753T-540- -ACZ-001 JOURNEYMAN TRAVEL
14M

Fixed Price
Service Total 1,999.00
Order total 1,999.00
GST 99.95

GST/HST Registration Number: 101801561 RT0001

Finning (Canada) a division of Finning International Inc.

6735 - 11 STREET N.E.
CALGARY, AB T2E 7H9
(403) 275-3340
(403) 274-8608 FAX

Date 05/02/16
Invoice Number
Invoice Total \$2,098.95
Payment Terms PARTS & SERVICES DUE DATE

Due Date 31/03/16

CUSTOMER NUMBER CA-0000950

Line No.	Qty	Item No.	Description	U/M	Sales Price
Invoice Total					\$2,098.95

Thank you for your business.

Finning (Canada) a division of Finning International Inc.

CUSTOMER: ALBERTA ASSOCIATION OF MUNICIPAL

Per: _____ (sign)

Per: _____ (sign)

Name: _____ (print)

Name: _____ (print)

Title: _____

Title: _____

Date: _____

Date: _____

GST/HST Registration Number: 101801561 RT0001

Wheatland County

16/02/2016

W.O. #: EQ-14-0516



Equipment Work Order

11:34 AM

Equipment: 14611

2014 CAT 14M Grader

Serial:

Details: 2014 FINNING,

oads graders/PW roads gr Location: ,

INSTRUCTIONS

Date: 13/06/2014 4:00 PM Due: Schd.: Taken By: wt_TSmith ☒ Done ☐ Urgent
Request By: Terry Smith Assign To: Robin Seely
Request: OUTFIT NEW UNIT PM Task:
Details: OUTFIT NEW UNIT
Install Wing

Vendor Name:

Vendor Info:

Activity	Description	Comments
----------	-------------	----------

☐ CONSTRUCT~Capital Construction

COMPLETION

Date Done:	29/04/2015	In:	Activity:CONSTRUCT	<input checked="" type="checkbox"/> Done	Current On Record	When WO Done
Done By:	Robin Seely			Hourmeter:	0.0	
Action Taken:				Odometer:	0.0	
OUTFIT NEW UNIT Install Wing						

EQ-14-0516



Equipment Work Order

10:59 AM

Equipment: 14611

2014 CAT 14M Grader

Serial:

Details: 2014 FINNING,

oads graders/PW roads gra Location:

INSTRUCTIONS

Date: 02/10/2014 2:59 PM Due: Sched.: Taken By: wt_RLanthier ☒ Done ☐ Urgent
Request By: Rachelle Lanthier Assign To: Kevin Katterhagen
Request: REPLACE HYDRAULIC FILTERS/TRANS FILTER/500 HRS SEF PM Task:
Details: REPLACE HYDRAULIC FILTERS/TRANS FILTER
553 HRS
Sample oils and change filters

Vendor Name:

Vendor Info:

Activity	Description	Comments
----------	-------------	----------

☐ FLEETREP Fleet Repairs

COMPLETION

Date Done: 07/05/2015 In: Activity: FLEETREP ☒ Done Current On Record When WO Done
Done By: Kevin Katterhagen Hourmeter: 0.0
Action Taken: Odometer: 0.0

REPLACE HYDRAULIC FILTERS/TRANS FILTER
553HRS
Sample oils and changed filters



Equipment Work Order

8:14 AM

Equipment: 14611

2014 CAT 14M Grader

Serial:

Details: 2014 FINNING,

roads graders/PW roads gr Location:

INSTRUCTIONS

Date: 04/11/2014 2:13 PM Due: Schd.: Taken By: wt_RLanthier ☒ Done ☐ Urgent
Request By: Rachelle Lanthier Assign To: Robin Seely
Request: 4 TIRES - 711 HRS PM Task:
Details: 4 TIRES - 711 HRS

Vendor Name:

Vendor Info:

Activity	Description	Comments
----------	-------------	----------

☐ FLEETREP Fleet Repairs

COMPLETION

Date Done:	08/05/2015	In:	Activity:	FLEETREP	<input checked="" type="checkbox"/> Done	Current On Record	When WO Done
Done By:	Robin Seely				Hourmeter:	0.0	
Action Taken:					Odometer:	0.0	
	4 TIRES - 711 HRS						

**Equipment Work Order**

2:39 PM

Equipment: 14611

2014 CAT 14M Grader

Serial:

Details: 2014 FINNING,

roads graders/PW roads gr Location:

INSTRUCTIONS

Date: 03/02/2015 2:54 PM Due: Sched.: Taken By: wt_RLanthier ☒ Done ☐ Urgent
 Request By: Rachelle Lanthier Assign To: Robin Seely
 Request: 1000 HRS SERVICE PM Task:
 Details: 1000 HRS SERVICE

Vendor Name:

Vendor Info:

2014 CAT 14M Grader,

14611

Activity	Description	Comments
<input type="checkbox"/> FLEETREP	Fleet Repairs	

COMPLETION

Date Done: 26/01/2016 In: Activity: FLEETREP ☒ Done Current On Record When WO Done
 Done By: Robin Seely Hourmeter: 0.0
 Action Taken: Odometer: 0.0
 1000 HRS SERVICE

Posted Transactions

Date	Trans Type	Batch	Description	Qty	Units	Rate	Amount
21/01/2015	Stock Usage	2015-000073	CATF2453818-OUTER AIR FILTER	2.00	Ea	30.029	60.06
23/01/2015	Employee Ben	2015-000055	SEELEY, ROBIN, CPP, Canada Pension benefits	0.00		0.000	7.57
23/01/2015	Employee Ben	2015-000055	SEELEY, ROBIN, WCB, Workers Compensation benefits	0.00		0.000	1.92
23/01/2015	Employee Ben	2015-000055	SEELEY, ROBIN, UIC, Unemployment insurance benefit	0.00		0.000	3.94
23/01/2015	Employee Ben	2015-000055	SEELEY, ROBIN, LTD, Long term disability benefits	0.00		0.000	2.32
23/01/2015	Employee Ben	2015-000055	SEELEY, ROBIN, LAP, Local Authorities Pension ben	0.00		0.000	19.47
23/01/2015	Employee Ben	2015-000055	SEELEY, ROBIN, CRIT, CRITICAL ILLNESS	0.00		0.000	0.24

EQ-15-0092

ENGINE

N030-51237-0630

LABEL#: 200886330

SAMPLE SHIP TIME (days) : 12

WHEATLAND COUNTY

RECEIVED DATE: 25-Aug-21

EQUIP NUM: 14611

CAT 14M - CAT C11

No Action Required

SERIAL NUMBER: R9J01266

COMP SERIAL NUM: TXE09922

Interp By: Fluid Interpreter

Interpreted On: 28-Aug-21

WEAR METAL ANALYSIS INDICATES ACCEPTABLE WEAR RATE. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

SAMPLE INFORMATION

Sampled Date	13-Aug-21	10-Dec-20	23-Jun-20	28-Apr-20
Sample Id	N030-51237-0630	N030-50353-0726	N030-50223-0558	N030-50125-0479
Lab Date	25-Aug-21	18-Dec-20	10-Aug-20	04-May-20
Meter [Hr]	10600	10081	9574	9316
Comp Meter [Hr]	10600	10081	9574	9316
Meter On Fluid	520	500	5024	250
Fluid Brand	CHEVRON	CHEVRON	CHEVRON	CHEVRON
Fluid Weight	5W-40	5W-40	5W-40	5W-40
Fluid Type	DELO SYN	DELO SYN	DELO SYN	DELO SYN
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Make Up Fluid [L]	30			32
Kidney Loop	N	U	U	U

PREVIOUS SAMPLE

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

CONDITION / CONTAMINATION

	13-Aug-21	10-Dec-20	23-Jun-20	28-Apr-20
VISCOSITY (Centistokes)				
V100 Viscosity at 100 C	12.2	12.3	13.5	13.8

VISCOSITY (Centistokes)

V40 Viscosity at 40 C	71.1	73.2	80.6	82.5
-----------------------	------	------	------	------

VISCOSITY INDEX

VI Viscosity Index	170	167	171	172
--------------------	-----	-----	-----	-----

INFRARED (UFM)

ST Soot	22	15	8	8
OXI Oxidation	16	16	14	13
SUL Sulfur Products	22	21	19	19
NIT Nitration	10	9	8	8

ANTIFREEZE

A Antifreeze	N	N	N	N
--------------	---	---	---	---

FUEL

F Fuel	N	N	N	N
--------	---	---	---	---

FUEL CONTENT (%)

PFC Percent Fuel	5.50	4.76		
------------------	------	------	--	--

WATER

W Water	N	N	N	N
---------	---	---	---	---

WEAR LEVELS / ADDITIVES
ELEMENTAL ANALYSIS (ppm)

	13-Aug-21	10-Dec-20	23-Jun-20	28-Apr-20
Na Sodium	3	4	4	3
K Potassium	3	3	3	3
Si Silicon	7	6	4	4
Al Aluminum	1	1	0	0
Fe Iron	35	26	8	7
Cr Chromium	1	1	0	0
Pb Lead	1	0	0	0
Cu Copper	20	57	68	163
Sn Tin	0	0	0	0
Ni Nickel	0	0	0	0
Ag Silver	0	0	0	0
Ti Titanium	0	0	0	0
V Vanadium	0	0	0	0
Zn Zinc	749	759	774	817
Ca Calcium	1301	1200	1207	1244
Mg Magnesium	596	652	656	657
Ba Barium	0	0	0	0
B Boron	40	47	69	78
Mo Molybdenum	3	0	0	1
P Phosphorus	628	643	693	710

ENGINE

SERIAL NUMBER: R9J01206

EQUIP NUM: 14811

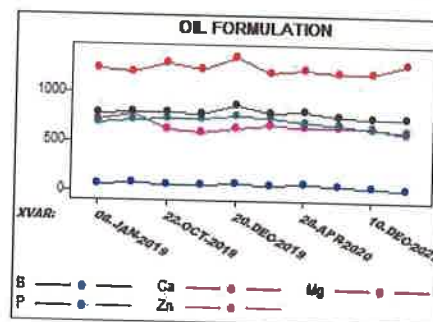
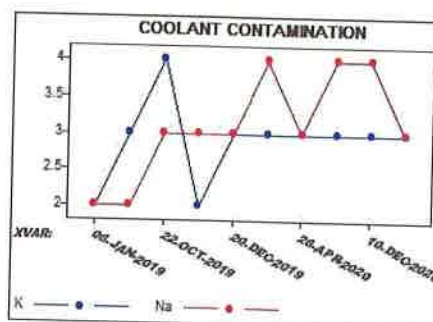
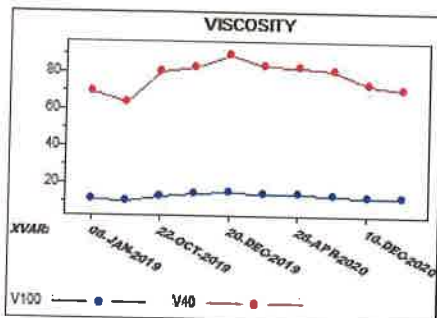
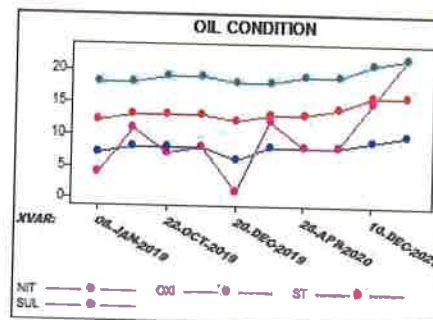
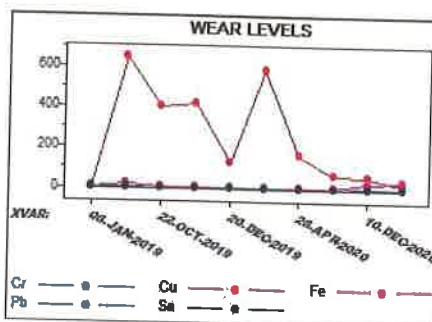
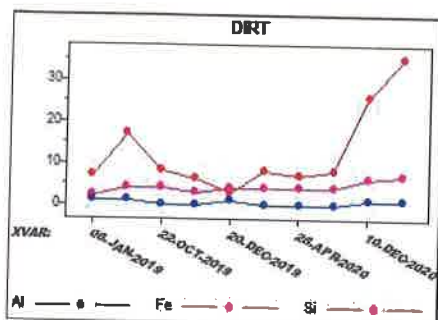
CAT 14M - CAT C11

COMP SERIAL NUM: TXE09822

N030-51237-0630



No Action Required



Report Comment

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h6bREJVUrs>. Access our online platform: <https://scswebmc.cat.com/cat-sce/samples>. Want to sign up for online portal?, Go Paperless? Or have any questions on SOS? Contact us 8:00am - 4:00pm MST M-F at SOS Support: 1-888-FINNING or oilsupport@finning.com.

TRANSMISSION DIFF

N030-51237-0618

LABEL#: 200686794

SAMPLE SHIP TIME (days) : 12

WHEATLAND COUNTY

RECEIVED DATE: 25-Aug-21

EQUIP NUM: 14611
CAT 14M

No Action Required

SERIAL NUMBER: R9J01266
COMP SERIAL NUM: SLZ00820

Interp By: Fluid Interpreter

Interpreted On: 26-Aug-21

WEAR METAL ANALYSIS INDICATES ACCEPTABLE WEAR RATE. NO PROBLEMS WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

PRESENTLY ASSOCIATED

SAMPLE INFORMATION

Sampled Date	13-Aug-21	10-Dec-20	23-Jun-20	25-Feb-20
Sample Id	N030-51237-0618	N030-50353-0722	N030-50223-0559	N030-50066-0343
Lab Date	25-Aug-21	18-Dec-20	10-Aug-20	06-Mar-20
Meter [Hr]	10600	10081	9574	9054
Comp Meter [Hr]	10600	10081	9574	9054
Meter On Fluid	520	1000	500	1009
Fluid Brand	CHEVRON	CHEVRON	CHEVRON	CHEVRON
Fluid Weight	30	30	30	30
Fluid Type				
Fluid Change	N	Y	N	Y
Filter Change	N	Y	Y	
Kidney Loop	N	U	U	U

PREVIOUS SAMPLE

DIRT AND WEAR METALS: APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS: APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

CONDITION / CONTAMINATION

	13-Aug-21	10-Dec-20	23-Jun-20	25-Feb-20
VISCOSITY (Centistokes)				
V100 Viscosity at 100 C	10.5	10.8	10.6	11.0
VISCOSITY (Centistokes)				
V40 Viscosity at 40 C	88.3	89.3	88.6	90.1

WEAR LEVELS / ADDITIVES

	13-Aug-21	10-Dec-20	23-Jun-20	25-Feb-20
ELEMENTAL ANALYSIS (ppm)				
Na Sodium	0	1	0	1
K Potassium	1	0	0	0
Si Silicon	2	3	3	3
Al Aluminum	0	1	0	0
Fe Iron	9	11	5	13
Cr Chromium	0	0	0	0
Pb Lead	0	0	0	0
Cu Copper	3	4	3	10
Sn Tin	0	0	0	0
Ni Nickel	0	0	0	0
Ag Silver	0	0	0	0
Ti Titanium	0	0	0	0
V Vanadium	0	0	0	0
Zn Zinc	1072	1054	1065	1097
Ca Calcium	3654	3302	3343	3346
Mg Magnesium	8	8	8	8
Ba Barium	0	0	0	0
B Boron	1	1	1	0
Mo Molybdenum	1	1	1	1
P Phosphorus	864	846	874	899

VISCOSITY INDEX

	13-Aug-21	10-Dec-20	23-Jun-20	25-Feb-20
VI Viscosity Index	101	105	102	108

INFRARED (UFM)

	13-Aug-21	10-Dec-20	23-Jun-20	25-Feb-20
ST Soot	0	0	0	0
OXI Oxidation	5	5	6	5
SUL Sulfur Products	14	12	13	13
NIT Nitration	4	4	4	4

ANTIFREEZE

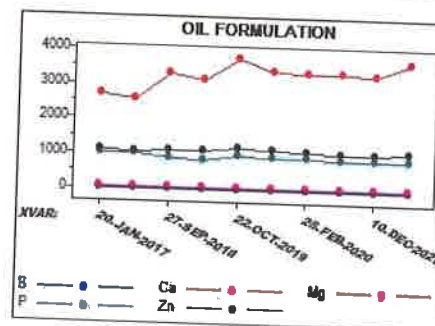
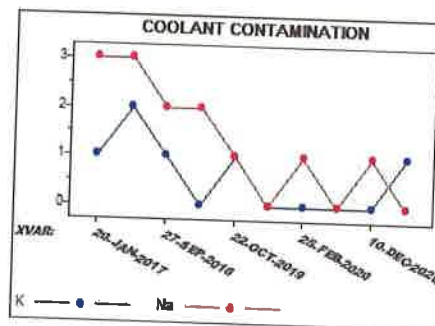
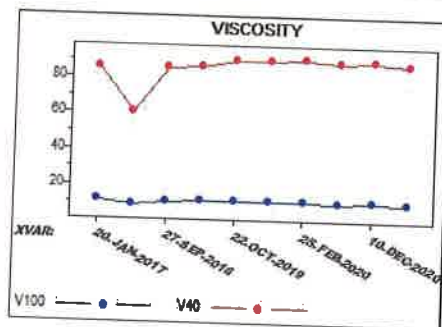
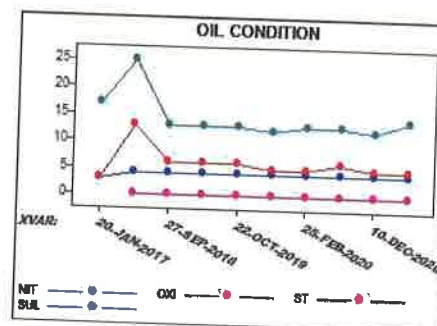
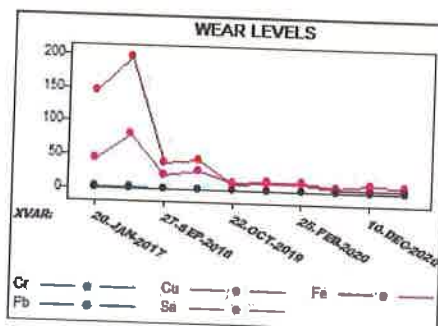
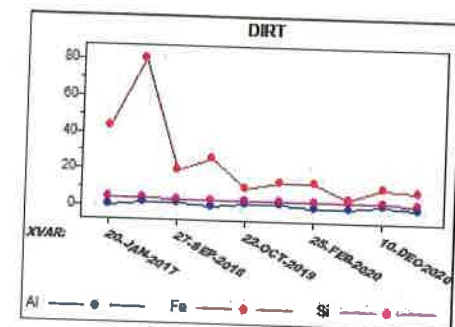
	13-Aug-21	10-Dec-20	23-Jun-20	25-Feb-20
A Antifreeze	N	N	N	N

WATER

	13-Aug-21	10-Dec-20	23-Jun-20	25-Feb-20
W Water	N	N	N	N

CLEANLINESS

	13-Aug-21	10-Dec-20	23-Jun-20	25-Feb-20
PARTICLE COUNT				
ISO ISO Code Rating	22/17/12	20/16/10	21/19/17	22/18/12
4µ 4µ	23225	9229	19148	25649
6µ 6µ	1025	523	4990	1735
10µ 10µ	93	29	1924	99
14µ 14µ	29	10	1042	21
18µ 18µ	8	4	597	11
21µ 21µ	3	2	398	8
38µ 38µ	0	0	28	3
50µ 50µ	0	0	3	2



Report Comment

Our sample reports has been updated! For more information on the new report, go to <https://www.youtube.com/watch?v=4h8bREJVVrs>. Access our online platform: <https://soswebmc.cat.com/cat-sos/samples>. Want to sign up for online portal? Go Paperless? Or have any questions on SOS? Contact us 8:00am 4:00pm MST M-F at SOS Support: 1-888-FINNING or oilsupport@finning.com.



Wheatland County Equipment Work Order

Work Order #: 1535
Unit #: 14611
Serial # CAT0014MLR9J01266

INSTRUCTIONS

Date: 12/3/2020
Odometer Reading: 9465
Scheduled Date: 12/3/2020

Task Exceptions:

Completed Date: 0/0/0000

Activity:

Action Taken: Incomplete 2000 HR Service
Incomplete 10080 HR

Have all actions been completed? No

Date	Cost Type	Description	Quantity	Rate	Amount
Perform 5000 Hrs service					
Perform 2000 Hrs service			Labour:		\$0.00
Perform T.A. repairs			Materials:		\$0.00
			Fuel:		\$0.00
			Other:		\$0.00
Change Coolant & Provide Sample			TOTAL:		\$0.00
Change hydraulic oil & filters, Provide Sample					
Change Transmission oil & filters, Provide Sample					
Clean Trans screens					
Change oil in Tandem drives, Provide Sample					
Change engine oil & filters, Provide Sample					
Perform Engine Valve lash Adjustment					
Perform fuel injector lash Adjustment					
Replace engine breather filter					
Change oil in circle drive, provide sample					
Change oil in front wheel bearings					
Lubricate Circle drive & wear strips					
Adjust blade slides					

INSPECTION SUMMARY

CUSTOMER	UNIT NO.	MAKE	MODEL	SERIAL #	HOURS/MILES
WHEATLAND COUNTY	14611	CAT	14M	R9J01266	8834

DEFECTS

- 1 INSTALL ARMOUR ON GREEN EXPANSION TANK HOSE - INSPECT/ REPLACE HOSE
- 2 REPOSITION UNLOADER VALVE HOSE AT AIR COMPRESSOR - RUBBING ON COMPRESSOR INLET PIPE
- 3 REPLACE DAMAGED COTTER KEY ON WING TILT ARM AT REAR MOUNT
- 4 SMALL BULBS IN FRT HEADLIGHTS BURNT OUT - RR UPPER CAB LIGHT NW
- 5 NOV 19 COOLANT SAMPLE RECOMENDS TO ADD COOLANT ADDITIVE ELC EXTENDER (CAT P/N 119-5152)
- 6 BLADE SLIDES LOOSE - ADJUST
- 7 REMOVE SHIMS FROM BLADE LIFT CYL SOCKETS AS REQUIRED
- 8 TANDEM OIL VERY DARK IN COLOR - CHECK AND VERIFY OIL HISTORY

Oil Filter 1R1808
 Fuel Filter 1R0762
 Fuel Filter 326 1644
 Outer Air Filter 245-3818
 Hydraulic Filter 1G8878
 Hydraulic Filter 338-3540
 Transmission Filter 1R1809
 Cab Air Filter 211-2660
 Cab Air Filter 149-1912
 Engine breather Filter
 Gasket
 O-ring

FINNING CAT

1-888-FINNING | finning.com

Bottle label must be retained to track

UNIT# 14611

COMPARTMENT Tanden Right

SHOP / JOB WORK ORDER #

DATE Dec 10/2020

BOTTLE LABEL # 200524410
REQ'D (RECORD LABEL # FROM BOTTLE)

SL-622

FINNING CAT

1-888-FINNING | finning.com

Bottle label must be retained to track

UNIT# 14611

COMPARTMENT Engine

SHOP / JOB WORK ORDER #

DATE Dec 10 2020

BOTTLE LABEL # 200524171
REQ'D (RECORD LABEL # FROM BOTTLE)

SL-622

FINNING CAT

1-888-FINNING | finning.com

Bottle label must be retained to track

UNIT# 14611

COMPARTMENT Circle Turn

SHOP / JOB WORK ORDER #

DATE Dec 10/2020

BOTTLE LABEL # 200523941
REQ'D (RECORD LABEL # FROM BOTTLE)

SL-622

FINNING CAT

1-888-FINNING | finning.com

Bottle label must be retained to track

UNIT# 14611

COMPARTMENT Hydraulics

SHOP / JOB WORK ORDER #

DATE Dec 10/2020

BOTTLE LABEL # 200510886
REQ'D (RECORD LABEL # FROM BOTTLE)

SL-622

FINNING CAT

1-888-FINNING | finning.com

Bottle label must be retained to track

UNIT# 14611

COMPARTMENT Left Tanden

SHOP / JOB WORK ORDER #

DATE Dec 10/2020

BOTTLE LABEL # 200524397
REQ'D (RECORD LABEL # FROM BOTTLE)

SL-622

FINNING CAT

1-888-FINNING | finning.com

Bottle label must be retained to track

UNIT# 14611

COMPARTMENT Radiator

SHOP / JOB WORK ORDER #

DATE Dec 10/2020

BOTTLE LABEL # 200461302
REQ'D (RECORD LABEL # FROM BOTTLE)

SL-630

FINNING CAT

1-888-FINNING | finning.com

Bottle label must be retained to track

UNIT# 14611

COMPARTMENT Transmission

SHOP / JOB WORK ORDER #

DATE Dec 10/2020

BOTTLE LABEL # 200524499
REQ'D (RECORD LABEL # FROM BOTTLE)

SL-622

RADIATOR

N030-50353-9059

LABEL#: 200461367

SHOP JOB NUM :

SAMPLE SHIP TIME (days) : 8

WHEATLAND COUNTY

EQUIP NUM: 14611

CAT 14M - CAT C13

No Action Required

SERIAL NUMBER: R9J01266

COMP SERIAL NUM: TXE09922

Interp By: Peter Lewandowski

Interpreted On: 21-Dec-20

ALL LEVEL 1 TESTS APPEAR NORMAL CONTINUE TO USE THIS COOLANT. SAMPLE AGAIN AT THE REGULAR INTERVAL TO MONITOR THE COOLING SYSTEM.

SAMPLE INFORMATION

Sampled Date	10-Dec-20	23-Jun-20	25-Feb-20	20-Dec-19
Sample Id	N030-50353-9059	N030-50223-9034	N030-50066-9027	N030-50013-9047
Lab Date	18-Dec-20	10-Aug-20	06-Mar-20	13-Jan-20
Meter [Hr]	10082	9574	9054	8834
Comp Meter [Hr]	10082	9574	9054	8834
Meter On Fluid	500	9574	9054	8834
Fluid Brand	CAT	CAT	CAT	CAT
Fluid Weight				FACT_FILL
Fluid Type				
Fluid Change	Y	N	N	N
Filter Change				

PREVIOUS SAMPLE

ALL LEVEL 1 TESTS APPEAR NORMAL CONTINUE TO USE THIS COOLANT. SAMPLE AGAIN AT THE REGULAR INTERVAL TO MONITOR THE COOLING SYSTEM.

ADDITIONAL CHARACTERISTICS

	10-Dec-20	23-Jun-20	25-Feb-20	20-Dec-19
REFRACTIVE INDEX				
GL Glycol %	57	58	59	59
FP Freeze Pt (deg C)	-48	-50	-52	-52
BP Boil Pt (deg C)	109	109	109	109
pH				
pH pH	7.5	7.4	7.3	7.2

CORROSION LEVELS/ CHEMISTRY

	10-Dec-20	23-Jun-20	25-Feb-20	20-Dec-19
NITRITE (ppm)				
NO2 Nitrite	950	950	0	0

CONDUCTIVITY (µS/cm)

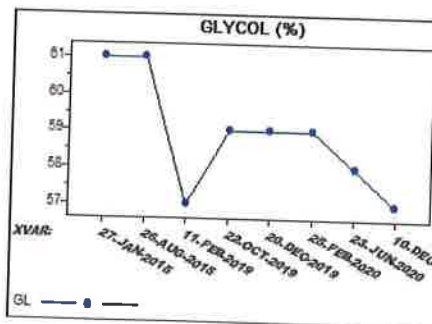
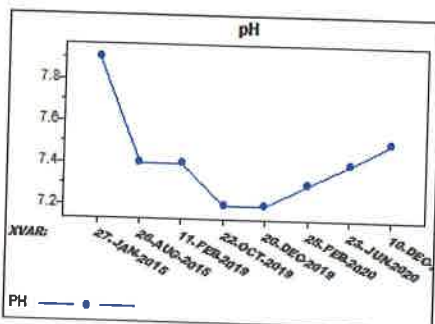
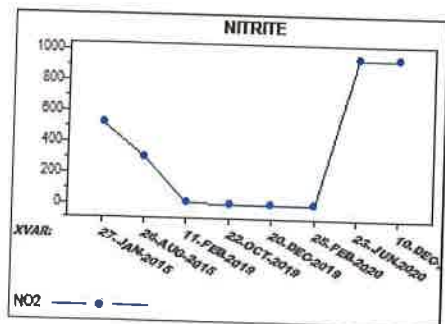
CON Conductivity	5551	5629	4810	4914
------------------	------	------	------	------

PHYSICAL

Foam Foam	norm	norm	norm	norm
-----------	------	------	------	------

PHYSICAL CHARACTERISTICS

	10-Dec-20	23-Jun-20	25-Feb-20	20-Dec-19
PHYSICAL				
Color Color	red	red	red	red/dark
App Appearance	clear	clear	clear	clear
Odor Odor	norm	norm	norm	norm
Oil Oil	none	none	none	none
PAmI Precipitate Amt	none	none	none	none



RADIATOR

N030-50353-9059

EQUIP NUM: 14611

CAT 14M - CAT C13



No Action Required

SERIAL NUMBER: R9J01266

COMP SERIAL NUM: TXE09922

Report Comment

Our sample reports has been updated! For more information on the new report, go to <https://www.youtube.com/watch?v=4h8bREJVUrs>. Access our online platform; <https://soswebmc.cat.com/cat-sos/samples>. Want to sign up for online portal?, Go Paperless? Or have any questions on SOS? Contact us 8:00am - 4:00pm MST M-F at SOS Support: 1-888-FINNING or oilsupport@finning.com.

ENGINE

N030-50353-0726

LABEL#: 200524171

SHOP JOB NUM :

SAMPLE SHIP TIME (days) : 8

WHEATLAND COUNTY

EQUIP NUM: 14611

CAT 14M - CAT C11

No Action Required

SERIAL NUMBER: R9J01266

COMP SERIAL NUM: TXE09922

Interp By: Gregory Scribner

Interpreted On: 21-Dec-20

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

SAMPLE INFORMATION

Sampled Date	10-Dec-20	23-Jun-20	28-Apr-20	25-Feb-20
Sample Id	N030-50353-0726	N030-50223-0558	N030-50125-0479	N030-50066-0346
Lab Date	18-Dec-20	10-Aug-20	04-May-20	06-Mar-20
Meter [Hr]	10081	9574	9316	9054
Comp Meter [Hr]	10081	9574	9316	9054
Meter On Fluid	500	5024	250	250
Fluid Brand	CHEVRON	CHEVRON	CHEVRON	CHEVRON
Fluid Weight	5W-40	5W-40	5W-40	5W-40
Fluid Type	DELO SYN	DELO SYN	DELO SYN	5W-40
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Make Up Fluid [L]			32	32
Kidney Loop	U	U	U	U

PREVIOUS SAMPLE

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

CONDITION / CONTAMINATION

	10-Dec-20	23-Jun-20	28-Apr-20	25-Feb-20
VISCOSITY (Centistokes)				
V100 Viscosity at 100 C	12.3	13.5	13.8	13.8

FUEL CONTENT (%)

Pfc Percent Fuel	4.76
------------------	------

WATER

W Water	N	N	N	N
---------	---	---	---	---

VISCOSITY (Centistokes)

V40 Viscosity at 40 C	73.2	80.6	82.5	83.6
-----------------------	------	------	------	------

VISCOSITY INDEX

VI Viscosity Index	167	171	172	170
--------------------	-----	-----	-----	-----

INFRARED (UFM)

ST Soot	15	8	8	12
OXI Oxidation	16	14	13	13
SUL Sulfur Products	21	19	19	18
NIT Nitration	9	8	8	8

FUEL

F Fuel	N	N	N	N
--------	---	---	---	---

ANTIFREEZE

A Antifreeze	N	N	N	N
--------------	---	---	---	---

WEAR LEVELS / ADDITIVES

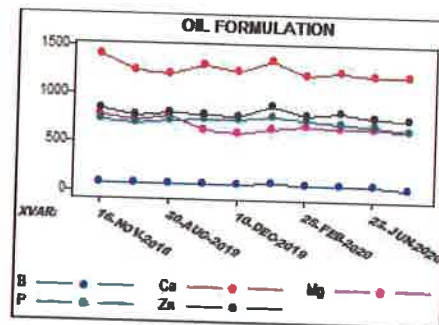
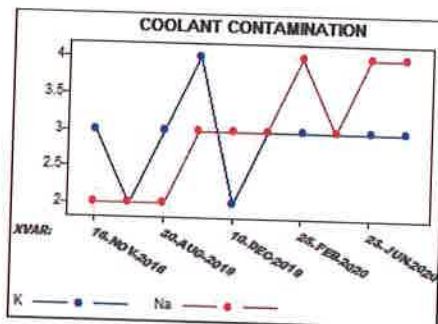
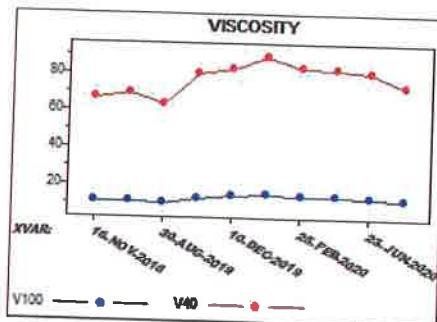
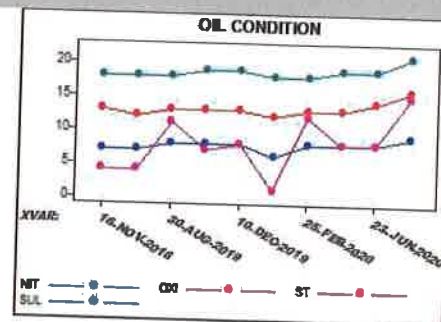
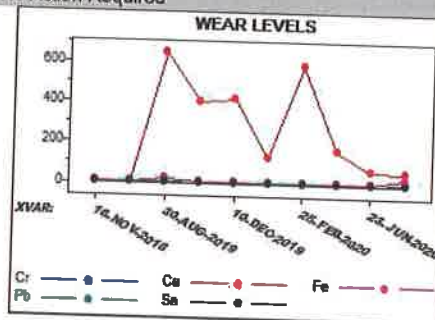
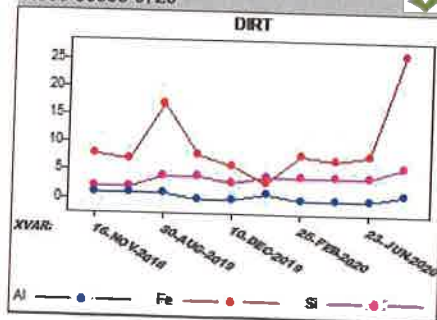
ELEMENTAL ANALYSIS (ppm)

	10-Dec-20	23-Jun-20	28-Apr-20	25-Feb-20
Na Sodium	4	4	3	4
K Potassium	3	3	3	3
Si Silicon	6	4	4	4
Al Aluminum	1	0	0	0
Fe Iron	26	8	7	8
Cr Chromium	1	0	0	0
Pb Lead	0	0	0	1
Cu Copper	57	68	163	584
Sn Tin	0	0	0	0
Ni Nickel	0	0	0	0
Ag Silver	0	0	0	0
Ti Titanium	0	0	0	1
V Vanadium	0	0	0	0
Zn Zinc	759	774	817	792
Ca Calcium	1200	1207	1244	1212
Mg Magnesium	652	656	657	673
Ba Barium	0	0	0	0
B Boron	47	69	78	70
Mo Molybdenum	0	0	1	1
P Phosphorus	643	693	710	746

N030-50353-0726



No Action Required



Report Comment

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TANDEM RIGHT

EQUIP NUM: 14611

SERIAL NUMBER: R9J01268

N030-50353-0725

LABEL#: 200524410

SHOP JOB NUM :

SAMPLE SHIP TIME (days) : 8

WHEATLAND COUNTY

CAT 14M

No Action Required

Interp By: Gregory Scribner

Interpreted On: 21-Dec-20

UNABLE TO TEST FOR PARTICLE COUNT (ISO CODE) DUE TO EXCESS PARTICULATE. WEAR METAL ANALYSIS INDICATES ACCEPTABLE WEAR RATE. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

SAMPLE INFORMATION

Sampled Date	10-Dec-20	25-Feb-20	20-Dec-19	22-Oct-19
Sample Id	N030-50353-0725	N030-50066-0345	N030-50013-0461	N030-49311-0466
Lab Date	18-Dec-20	06-Mar-20	13-Jan-20	07-Nov-19
Meter [Hr]	10081	9054	8834	8446
Comp Meter [Hr]	10081	9054	8834	8446
Meter On Fluid	2000	1000	8834	400
Fluid Brand	CHEVRON	CHEVRON	CHEVRON	CHEVRON
Fluid Weight	30	30	30	30
Fluid Type				UNKNOWN
Fluid Change	Y	Y	N	N
Filter Change	N		N	
Kidney Loop	U	U		U

PREVIOUS SAMPLE

UNABLE TO TEST FOR PARTICLE COUNT (ISO CODE) DUE TO EXCESS PARTICULATE. WEAR METAL ANALYSIS INDICATES ACCEPTABLE WEAR RATE. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

CONDITION / CONTAMINATION

	10-Dec-20	25-Feb-20	20-Dec-19	22-Oct-19
VISCOSITY (Centistokes)				
V100 Viscosity at 100 C	11.3	10.9	10.9	11.0

WATER

W	Water	N	N	N	N
---	-------	---	---	---	---

WEAR LEVELS / ADDITIVES

	10-Dec-20	25-Feb-20	20-Dec-19	22-Oct-19
ELEMENTAL ANALYSIS (ppm)				
Na Sodium	0	1	0	1
K Potassium	1	0	0	1
Si Silicon	10	7	7	6
Al Aluminum	0	1	1	1
Fe Iron	260	245	184	134
Cr Chromium	0	0	0	0
Pb Lead	0	0	0	0
Cu Copper	0	0	0	0
Sn Tin	0	0	0	0
Ni Nickel	0	0	0	0
Ag Silver	0	0	0	0
Ti Titanium	0	0	0	0
V Vanadium	0	0	0	0
Zn Zinc	1048	1096	1137	1162
Ca Calcium	3323	3358	3505	3693
Mg Magnesium	10	10	10	9
Ba Barium	0	0	0	0
B Boron	0	0	0	0
Mo Molybdenum	0	1	1	1
P Phosphorus	851	955	1055	1009

VISCOSITY (Centistokes)

V40	Viscosity at 40 C	90.2	92.9	92.5	89.6
-----	-------------------	------	------	------	------

VISCOSITY INDEX

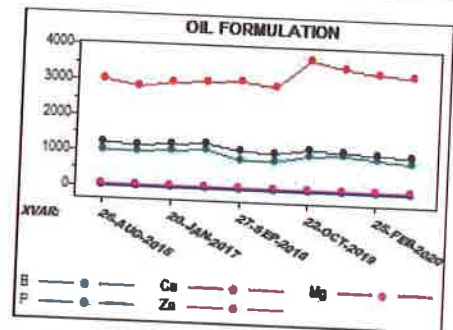
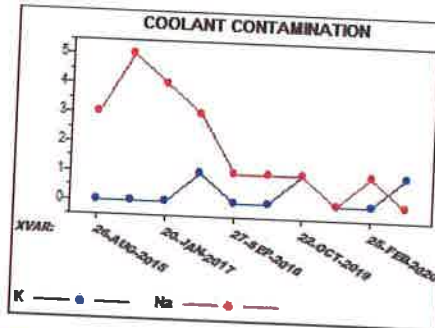
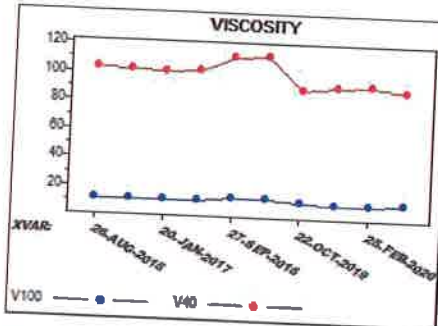
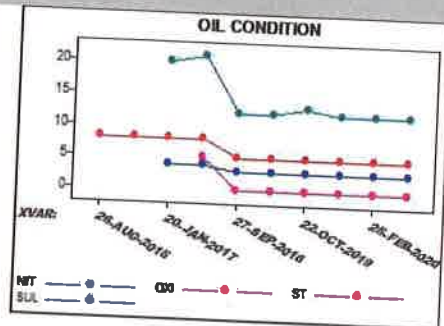
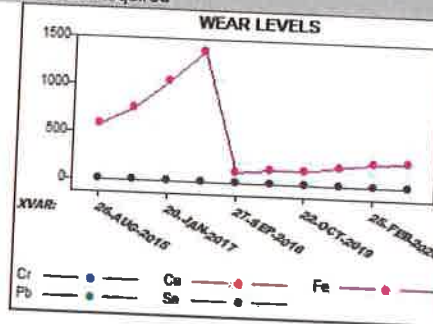
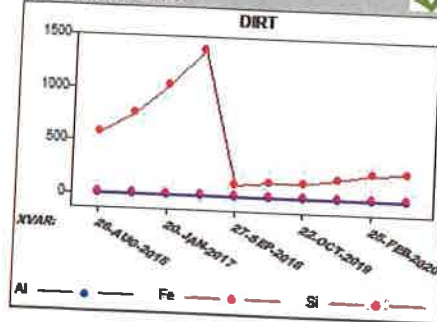
VI	Viscosity Index	113	101	102	108
----	-----------------	-----	-----	-----	-----

INFRARED (UFM)

ST	Soot	0	0	0	0
OXI	Oxidation	5	5	5	5
SUL	Sulfur Products	12	12	12	13
NIT	Nitration	3	3	3	3

CLEANLINESS

		10-Dec-20	25-Feb-20	20-Dec-19	22-Oct-19
PARTICLE COUNT					
ISO	ISO Code Rating	BLH	BLH	24/23/21	23/23/21
4μ	4μ			81727	79687
6μ	6μ			66991	63439
10μ	10μ			34961	30618
14μ	14μ			12278	10160
18μ	18μ			2873	2593
21μ	21μ			947	938
38μ	38μ			9	10
50μ	50μ			2	2



Report Comment

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TRANSMISSION DIFF

EQUIP NUM: 14611

CAT 14M

SERIAL NUMBER: R9J01266

COMP SERIAL NUM: SLZ00820

N030-50353-0722

LABEL#: 200524499

SHOP JOB NUM :

SAMPLE SHIP TIME (days) : 6

WHEATLAND COUNTY

 No Action Required

Interp By: Gregory Scribner

Interpreted On: 21-Dec-20

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

SAMPLE INFORMATION

Sampled Date	10-Dec-20	23-Jun-20	25-Feb-20	20-Dec-19
Sample Id	N030-50353-0722	N030-50223-0559	N030-50066-0343	N030-50013-0457
Lab Date	18-Dec-20	10-Aug-20	06-Mar-20	13-Jan-20
Meter [Hr]	10081	9574	9054	8834
Comp Meter [Hr]	10081	9574	9054	
Meter On Fluid	1000	500	1009	8834
Fluid Brand	CHEVRON	CHEVRON	CHEVRON	CHEVRON
Fluid Weight	30	30	30	30
Fluid Type				
Fluid Change	Y	N	Y	N
Filter Change	Y	Y		N
Kidney Loop	U	U	U	

PREVIOUS SAMPLE

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

CONDITION / CONTAMINATION

	10-Dec-20	23-Jun-20	25-Feb-20	20-Dec-19
VISCOSITY (Centistokes)				
V100 Viscosity at 100 C	10.8	10.6	11.0	10.7

WATER

W Water	N	N	N	N
---------	---	---	---	---

WEAR LEVELS / ADDITIVES

	10-Dec-20	23-Jun-20	25-Feb-20	20-Dec-19
ELEMENTAL ANALYSIS (ppm)				
Na Sodium	1	0	1	0
K Potassium	0	0	0	0
Si Silicon	3	3	3	3
Al Aluminum	1	0	0	1
Fe Iron	11	5	13	13
Cr Chromium	0	0	0	0
Pb Lead	0	0	0	0
Cu Copper	4	3	10	11
Sn Tin	0	0	0	0
Ni Nickel	0	0	0	0
Ag Silver	0	0	0	0
Ti Titanium	0	0	0	0
V Vanadium	0	0	0	0
Zn Zinc	1054	1065	1097	1126
Ca Calcium	3302	3343	3346	3366
Mg Magnesium	8	8	8	8
Ba Barium	0	0	0	0
B Boron	1	1	0	1
Mo Molybdenum	1	1	1	1
P Phosphorus	846	874	899	928

VISCOSITY (Centistokes)

V40 Viscosity at 40 C	89.3	88.6	90.1	90.0
-----------------------	------	------	------	------

VISCOSITY INDEX

VI Viscosity Index	105	102	108	102
--------------------	-----	-----	-----	-----

INFRARED (UFM)

ST Soot	0	0	0	0
OXI Oxidation	5	6	5	5
SUL Sulfur Products	12	13	13	12
NIT Nitration	4	4	4	4

ANTIFREEZE

A Antifreeze	N	N	N	N
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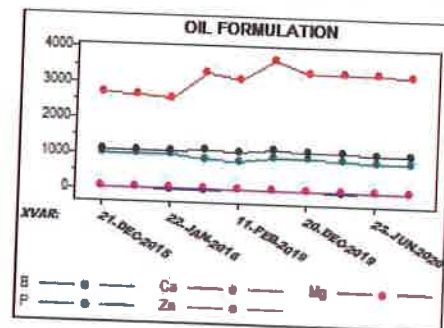
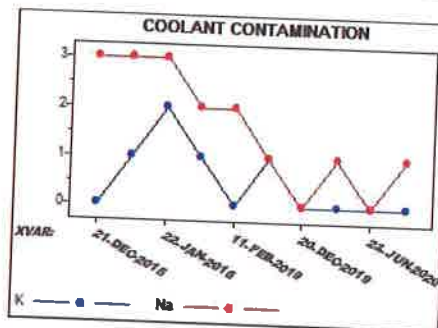
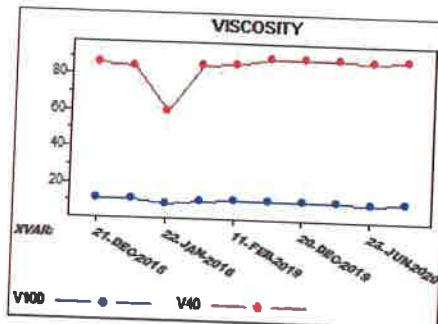
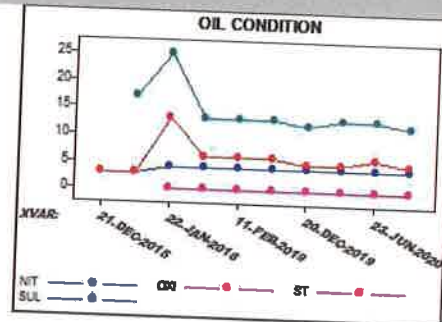
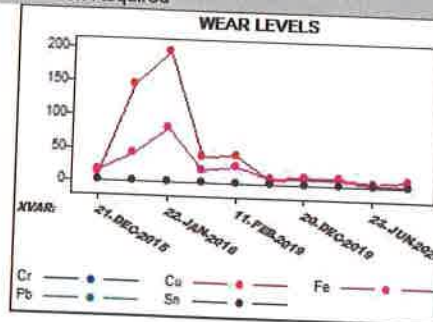
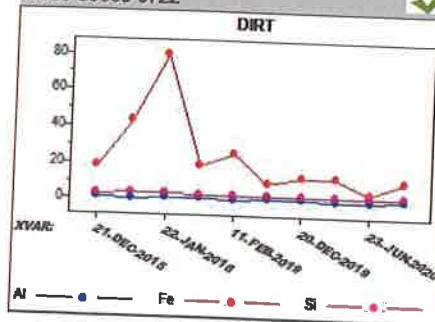
CLEANLINESS

	10-Dec-20	23-Jun-20	25-Feb-20	20-Dec-19
PARTICLE COUNT				
ISO ISO Code Rating	20/16/10	21/19/17	22/18/12	22/17/12
4µ 4µ	9229	19148	25649	22005
6µ 6µ	523	4990	1735	1187
10µ 10µ	29	1924	99	69
14µ 14µ	10	1042	21	32
18µ 18µ	4	597	11	17
21µ 21µ	2	398	8	9
38µ 38µ	0	28	3	1
50µ 50µ	0	3	2	0

N030-50353-0722

CAT 14M

No Action Required



Report Comment

Our sample reports has been updated! For more Information on the new report, go to <https://www.youtube.com/watch?v=4h8bREJVUrs>. Access our online platform: <https://soswebmc.cat.com/cat-sos/samples>. Want to sign up for online portal?, Go Paperless? Or have any questions on SOS? Contact us 8:00am - 4:00pm MST M-F at SOS Support: 1-888-FINNING or oilsupport@finning.com.

HYDRAULIC SYSTEM

EQUIP NUM: 14611

CAT 14M

SERIAL NUMBER: R9J01266

N030-50353-0721

LABEL#: 200510886

SHOP JOB NUM :

SAMPLE SHIP TIME (days) : 8

WHEATLAND COUNTY



No Action Required

Interp By: Gregory Scribner

Interpreted On: 21-Dec-20

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

SAMPLE INFORMATION

Sampled Date	10-Dec-20	23-Jun-20	25-Feb-20	20-Dec-19
Sample Id	N030-50353-0721	N030-50223-0560	N030-50066-0342	N030-50013-0458
Lab Date	18-Dec-20	10-Aug-20	06-Mar-20	13-Jan-20
Meter [Hr]	10081	9574	9054	8834
Comp Meter [Hr]	10081	9574	9054	8834
Meter On Fluid	5000	4000	1000	8834
Fluid Brand	CHEVRON	CHEVRON	CHEVRON	CHEVRON
Fluid Weight	5W-20	5W-20	5W-20	5W-20
Fluid Type	SYN			
Fluid Change	Y	N	N	N
Filter Change	Y	Y	Y	N
Kidney Loop	U	U	U	

PREVIOUS SAMPLE

WEAR METAL ANALYSIS INDICATES ACCEPTABLE WEAR RATE. OIL CONDITION ANALYSIS IS ACCEPTABLE. PARTICLE COUNT READING EXCEEDS RECOMMENDED CLEANLINESS LEVEL. RECOMMEND THE USE OF A ULTRA HIGH EFFICIENCY FILTER TO REDUCE EXCESS PARTICULATE IN SYSTEM. SEE THE CAT FILTER AND FLUID APPLICATION GUIDE FOR APPROPRIATE FILTER. RESAMPLE AT THE NEXT SERVICE INTERVAL.

CONDITION / CONTAMINATION

	10-Dec-20	23-Jun-20	25-Feb-20	20-Dec-19
VISCOSITY (Centistokes)				
V100 Viscosity at 100 C	8.1	7.8	8.2	8.1

WATER

W	Water	N	N	N	N
---	-------	---	---	---	---

VISCOSITY (Centistokes)

V40	Viscosity at 40 C	39.5	39.7	40.1	40.1
-----	-------------------	------	------	------	------

VISCOSITY INDEX

VI	Viscosity Index	185	171	185	181
----	-----------------	-----	-----	-----	-----

INFRARED (UFM)

ST	Soot	0	0	0	0
OXI	Oxidation	30	31	31	31
SUL	Sulfur Products	39	41	41	41
NIT	Nitration	4	4	3	3

ANTIFREEZE

A	Antifreeze	N	N	N	N
---	------------	---	---	---	---

CLEANLINESS

		10-Dec-20	23-Jun-20	25-Feb-20	20-Dec-19
PARTICLE COUNT					
ISO	ISO Code Rating	19/17/16	23/23/21	22/20/15	18/16/13
4μ	4μ	3138	76275	23089	1740
6μ	6μ	1083	54476	7438	472
10μ	10μ	617	24604	687	109
14μ	14μ	444	10813	164	43
18μ	18μ	288	4365	76	17
21μ	21μ	181	2192	47	7
38μ	38μ	11	22	14	0
50μ	50μ	3	3	10	0

WEAR LEVELS / ADDITIVES

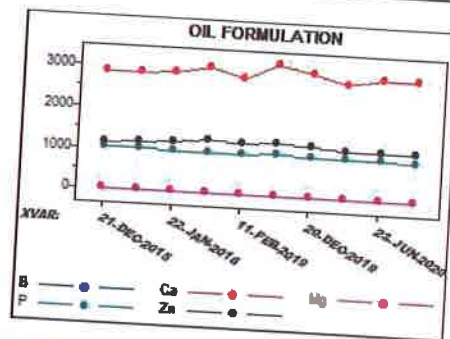
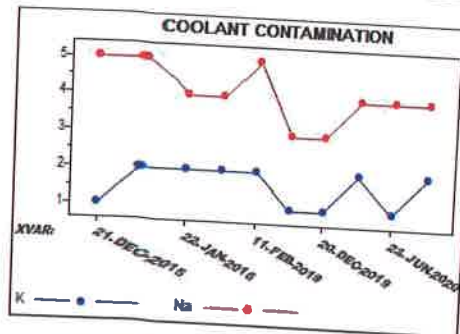
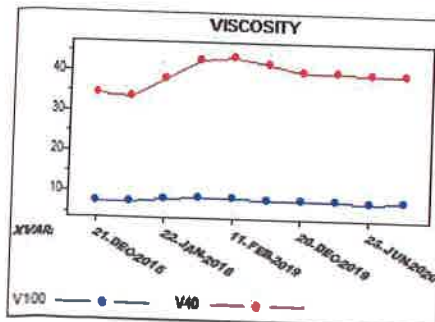
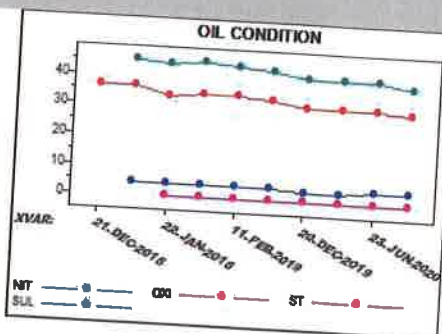
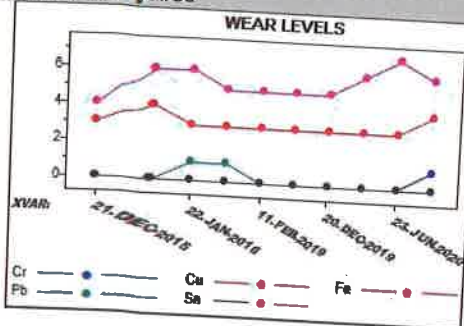
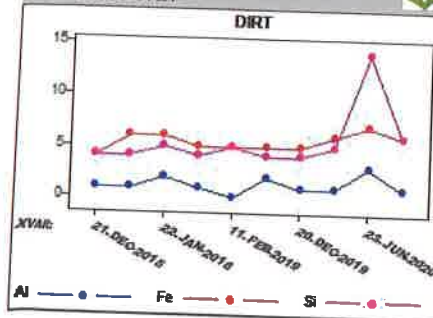
10-Dec-20 23-Jun-20 25-Feb-20 20-Dec-19

ELEMENTAL ANALYSIS (ppm)

Na	Sodium	4	4	4	3
K	Potassium	2	1	2	1
Si	Silicon	6	14	5	4
Al	Aluminum	1	3	1	1
Fe	Iron	6	7	6	5
Cr	Chromium	1	0	0	0
Pb	Lead	0	0	0	0
Cu	Copper	4	3	3	3
Sn	Tin	0	0	0	0
Ni	Nickel	0	1	0	0
Ag	Silver	0	0	0	0
Ti	Titanium	0	0	0	0
V	Vanadium	0	0	0	0
Zn	Zinc	1177	1181	1166	1263
Ca	Calcium	2902	2902	2764	2995
Mg	Magnesium	9	11	9	9
Ba	Barium	0	0	0	0
B	Boron	1	1	1	1
Mo	Molybdenum	0	0	1	0
P	Phosphorus	956	991	994	969

N030-50353-0721

No Action Required



Report Comment

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h8bREJVUrs>. Access our online platform: <https://soswebmc.cat.com/cat-sos/samples>. Want to sign up for online portal?, Go Paperless? Or have any questions on SOS? Contact us 8:00am - 4:00pm MST M-F at SOS Support: 1-888-FINNING or oilsupport@finning.com.

CIRCLE DRIVE BOX

EQUIP NUM: 14611

SERIAL NUMBER: R9J01266

N030-50353-0723

LABEL#: 200523941

SHOP JOB NUM :

SAMPLE SHIP TIME (days) : 8

WHEATLAND COUNTY

CAT 14M

No Action Required

Interp By: Gregory Scribner

Interpreted On: 21-Dec-20

FOR OIL SERVICE INDICATED: SLIGHTLY ELEVATED COPPER. OTHER READINGS APPEAR TO BE NORMAL.
RESAMPLE AT THE NEXT SERVICE INTERVAL.

SAMPLE INFORMATION

Sampled Date	10-Dec-20	11-Feb-19	26-Aug-15
Sample Id	N030-50353-0723	N030-49053-0341	N030-45251-0423
Lab Date	18-Dec-20	22-Feb-19	08-Sep-15
Meter [Hr]	10081	8045	1996
Comp Meter [Hr]	10081	8045	
Meter On Fluid	2000	1000	1996
Fluid Brand	CHEVRON	PETRO-CAN	CAT
Fluid Weight	80W-90	80W-90	
Fluid Type	UNKNOWN	UNKNOWN	UNKNOWN
Fluid Change	Y	Y	Y
Filter Change	N		U
Kidney Loop	U	U	

PREVIOUS SAMPLE

ELEVATED COPPER PRIMARILY SOURCED TO OXIDES AND SOME
SECONDARY BUSHING THRUST WASHER WEAR. OTHER READINGS APPEAR
TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

CONDITION / CONTAMINATION

	10-Dec-20	11-Feb-19	26-Aug-15
VISCOSITY (Centistokes)			
V100 Viscosity at 100 C	14.2	14.7	15.3

WATER

W	Water	N	N	N
---	-------	---	---	---

WEAR LEVELS / ADDITIVES

10-Dec-20 11-Feb-19 26-Aug-15

ELEMENTAL ANALYSIS (ppm)

Na	Sodium	0	0	<0
K	Potassium	1	0	4
Si	Silicon	1	5	1
Al	Aluminum	28	19	26
Fe	Iron	9	9	7
Cr	Chromium	0	0	0
Pb	Lead	7	8	23
Cu	Copper	71	72	133
Sn	Tin	1	3	5
Ni	Nickel	0	0	1
Ag	Silver	0	0	0
Ti	Titanium	0	0	0
V	Vanadium	0	0	0
Zn	Zinc	6	8	9
Ca	Calcium	3	7	2
Mg	Magnesium	0	1	0
Ba	Barium	0	0	0
B	Boron	180	248	148
Mo	Molybdenum	0	0	<0
P	Phosphorus	913	868	844

VISCOSITY (Centistokes)

V40 Viscosity at 40 C	135.3	135.8	148.9
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VISCOSITY INDEX

VI Viscosity Index	103	108	
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INFRARED (UFM)

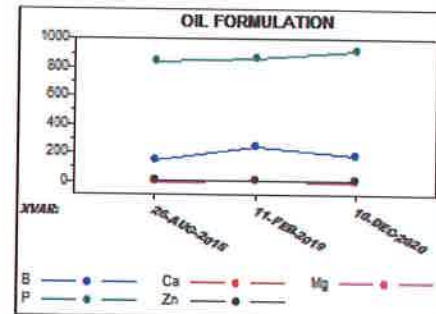
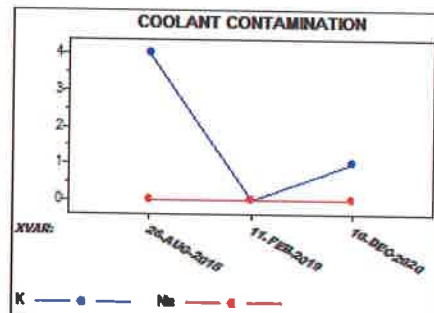
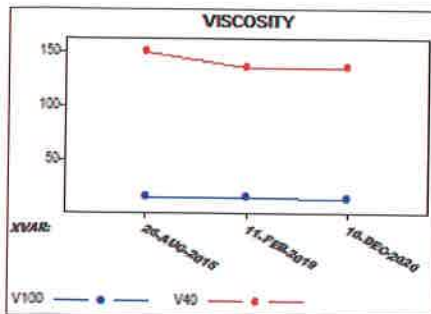
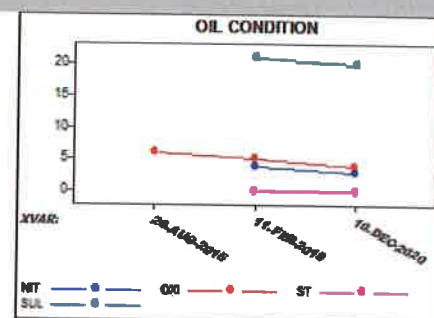
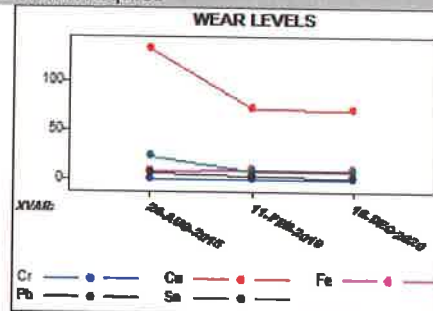
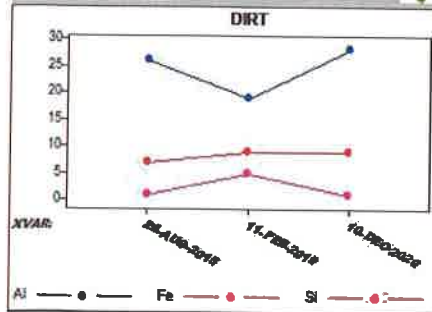
ST Soot	0	0	
OXI Oxidation	4	5	6
SUL Sulfur Products	20	21	
NIT Nitration	3	4	

CLEANLINESS

10-Dec-20 11-Feb-19 26-Aug-15

PARTICLE COUNT

ISO	ISO Code Rating	23/23/20	24/23/20	24/23/21
4μ	4μ	78476	80557	80497
6μ	6μ	62153	61878	68878
10μ	10μ	29685	25286	42152
14μ	14μ	8375	6378	18385
18μ	18μ	1620	1358	4560
21μ	21μ	518	476	1461
38μ	38μ	19	11	16
50μ	50μ	8	2	2



Report Comment

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TANDEM LEFT

EQUIP NUM: 14611

SERIAL NUMBER: R9J01266

N030-50353-0724

LABEL#: 200524397

SHOP JOB NUM :

SAMPLE SHIP TIME (days) : 8

WHEATLAND COUNTY

CAT 14M



Action Required

Interp By: Gregory Scribner

Interpreted On: 21-Dec-20

OIL IS BLACK, UNABLE TO TEST FOR ISO CODE. ELEVATED SILICON MAY BE ASSOCIATED WITH DIRT ENTRY, FRICTION MATERIAL, RESIDUALS OF ASSEMBLY/ REPAIR COMPOUNDS, SEALS, GASKETS, GREASES ETC. ELEVATED IRON MAY BE ATTRIBUTED TO WEAR OF TANDEM CHAINS, HOUSING, BRAKES, GEARS, BEARINGS, ETC. OIL CHANGE INDICATED, RECOMMEND TO RESAMPLE IN ~500HRS TO MONITOR EXAMINE HOUSING SEALS, BREATHERS, PLUGS FOR INDICATIONS OF LEAKAGE OR DIRT/ WATER ENTRY.

SAMPLE INFORMATION

	10-Dec-20	25-Feb-20	20-Dec-19	22-Oct-19
Sampled Date	10-Dec-20	25-Feb-20	20-Dec-19	22-Oct-19
Sample Id	N030-50353-0724	N030-50066-0344	N030-50013-0460	N030-49311-0470
Lab Date	18-Dec-20	06-Mar-20	13-Jan-20	07-Nov-19
Meter [Hr]	10081	9054	8834	8446
Comp Meter [Hr]	10081	9054		8446
Meter On Fluid	2000	1000	8834	400
Fluid Brand	CHEVRON	CHEVRON	CHEVRON	CHEVRON
Fluid Weight	30	30	30	30
Fluid Type				UNKNOWN
Fluid Change	Y	Y	N	N
Filter Change	N		N	
Kidney Loop	U	U		U

PREVIOUS SAMPLE

UNABLE TO TEST FOR PARTICLE COUNT	ISO CODE	DUE TO EXCESS
PARTICULATE	GIRT AND WEAR	METALS
LEVELS	OTHER READINGS	APPEAR TO BE
SERVICE INTERVAL	NORMAL	RESAMPLE AT THE NEXT

CONDITION / CONTAMINATION

	10-Dec-20	25-Feb-20	20-Dec-19	22-Oct-19
VISCOSITY (Centistokes)				
V100	Viscosity at 100 C	10.9	11.1	10.8
				11.8

WATER

W	Water	N	N	N	N
---	-------	---	---	---	---

WEAR LEVELS / ADDITIVES

		10-Dec-20	25-Feb-20	20-Dec-19	22-Oct-19
ELEMENTAL ANALYSIS (ppm)					
Na	Sodium	3	1	1	1
K	Potassium	2	0	0	1
Si	Silicon	113	6	6	5
Al	Aluminum	10	1	1	1
Fe	Iron	719	275	235	144
Cr	Chromium	0	0	0	0
Pb	Lead	0	0	0	0
Cu	Copper	1	0	0	0
Sn	Tin	0	0	0	0
Ni	Nickel	0	0	0	0
Ag	Silver	0	0	0	0
Ti	Titanium	1	0	0	0
V	Vanadium	0	0	0	0
Zn	Zinc	986	1083	1139	1180
Ca	Calcium	3148	3302	3438	3691
Mg	Magnesium	14	10	9	9
Ba	Barium	0	0	0	0
B	Boron	1	0	0	0
Mo	Molybdenum	1	1	1	1
P	Phosphorus	797	926	1064	1001

VISCOSITY (Centistokes)

V40	Viscosity at 40 C	90.0	91.9	92.2	91.7
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VISCOSITY INDEX

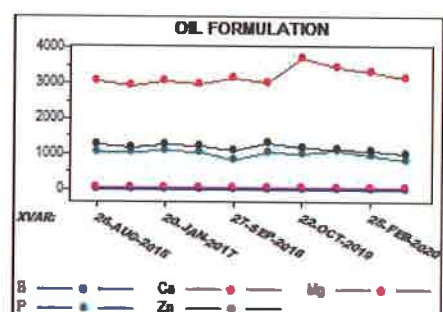
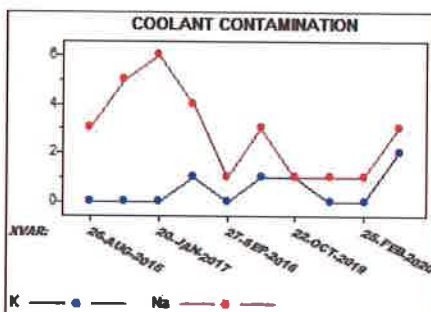
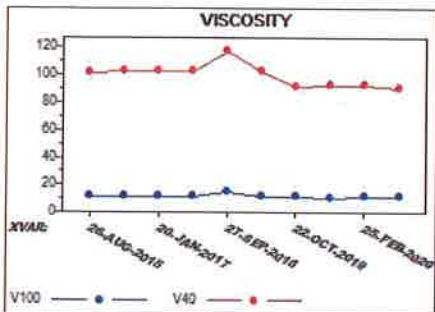
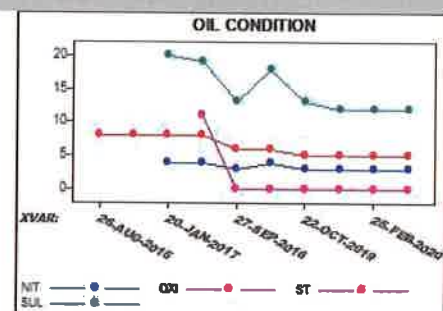
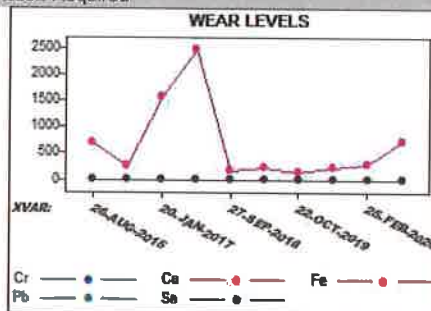
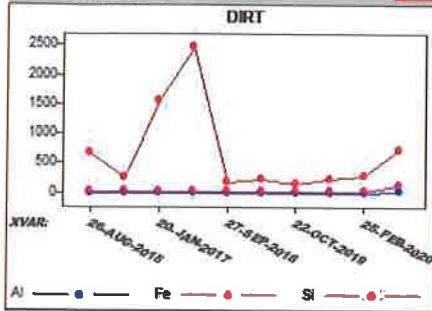
VI	Viscosity Index	106	107	101	119
----	-----------------	-----	-----	-----	-----

INFRARED (UFM)

ST	Soot	0	0	0	0
OXI	Oxidation	5	5	5	5
SUL	Sulfur Products	12	12	12	13
NIT	Nitration	3	3	3	3

CLEANLINESS

		10-Dec-20	25-Feb-20	20-Dec-19	22-Oct-19
PARTICLE COUNT					
ISO	ISO Code Rating	BLACK	BLH	24/23/20	24/23/21
4μ	4μ			83955	80836
6μ	6μ			67771	65668
10μ	10μ			32188	33187
14μ	14μ			9138	11209
18μ	18μ			1747	2626
21μ	21μ			569	888
38μ	38μ			5	9
50μ	50μ			2	2



Report Comment

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PHONE: 1-888 FINNING (346-6464)

Email: digitaliseservices@finning.com Web: www.finning.com

CONTACT INFORMATION

TERRY SMITH
WHEATLAND COUNTY
HWY 1 RR 1
STRATHMORE, AB
CAN T1P 1J6
PHONE: 403-934-3284
FAX:
Email: TERRY.

EQUIPMENT

EQUIP NUM: 14611
SERIAL NUMBER: R9J01266
MODEL: 14M
MANUFACTURER: CAT
COMPANY NAME: WHEATLAND COUNTY

SAMPLE INFORMATION

COMPARTMENT NAME: RADIATOR
COMP SERIAL NUM: TXE09922
COMPARTMENT MODEL: C13_CAT
LABEL #: 200441471
SHOP JOB NUM:
SAMPLE TYPE: COOLANT
SAMPLE SHIP TIME (days): 48
SAMPLE LOCATION:

Interp By: Greg Eyre

ALL LEVEL 1 TESTS APPEAR NORMAL. CONTINUE TO USE THIS COOLANT, SAMPLE AGAIN AT THE REGULAR INTERVAL TO MONITOR THE COOLING SYSTEM.

No Action
Required

LAB #

N030-50223-9034

PROCESS 8/10/2020

DATE

CORROSION ELEMENTS - COOLANT FORMULATION

SAMPLE DATE	SAMPLE ID	FLUID BRAND	TYPE	NO2
23-Jun-20	N030-50223-9034	CAT	ELC	960
25-Feb-20	N030-50066-9027	CAT		0
20-Dec-19	N030-50013-9047	CAT		0
22-Oct-19	N030-49311-9038	CATELC		0

FREEZE/BOIL PROTECTION - CONTAMINATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID BRAND	TYPE	FLUID CHANGE	GL	FP	BP	pH	CON	Foam
23-Jun-20	N030-50223-9034	9574	9574	CAT	ELC	N	58	-50	109	7.4	5629	norm
25-Feb-20	N030-50066-9027	9054	9054	CAT		N	59	-52	109	7.3	4810	norm
20-Dec-19	N030-50013-9047	8834	8834	CAT		N	59	-52	109	7.2	4914	norm
22-Oct-19	N030-49311-9038	8446	8446	CATELC		U	59	-52	109	7.2	4706	norm

COOLANT PHYSICALS

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID BRAND	TYPE	Color	App	Odor	Oil	Paint
23-Jun-20	N030-50223-9034	9574	9574	CAT	ELC	red	clear	norm	none	none
25-Feb-20	N030-50066-9027	9054	9054	CAT		red	clear	norm	none	none
20-Dec-19	N030-50013-9047	8834	8834	CAT		red/dark	clear	norm	none	none
22-Oct-19	N030-49311-9038	8446	8446	CATELC		red	clear	norm	none	none

App = Appearance, BP = Boil Point°C, CON = Conductivity, FP = Freeze Point°C, GL = Glycol, NO2 = Nitrite, Paint = Precipitate Amount

Notice: This analysis is intended as an aid in predicting mechanical wear. No guarantee, expressed or implied, is made against failure of this piece of equipment or a component thereof.



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PHONE: 1-888 FINNING (346-6464)

Email: digital@finning.com Web: www.finning.com

CONTACT INFORMATION

TERRY SMITH
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PHONE: 403-934-3284
FAX:
Email: TERRY.

Interp By: Peter Lewandowski

EQUIPMENT

EQUIP NUM: 14611
SERIAL NUMBER: R9J01266
MODEL : 14M
MANUFACTURER : CAT
COMPANY NAME : WHEATLAND COUNTY

AREA:
REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : TRANSMISSION DIFF
COMP SERIAL NUM:
COMPARTMENT MODEL :
LABEL#: 200092544
SHOP JOB NUM :
SAMPLE TYPE: OIL
SAMPLE SHIP TIME (days) : 48
SAMPLE LOCATION :

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

LAB #
ND30-50223-0559
PROCESS 8/10/2020
DATE

WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Na	K	Si	Al	Fe	Cr	Pb	Cu	Sn	Ni	Ag	Ti	V	Zn	Ca	Mg	Ba	B	Mo	P
23-Jun-20	ND30-50223-0559	9574	500	N	Y	0	0	3	0	5	0	0	3	0	0	0	0	0	1065	3343	8	0	1		874
25-Feb-20	ND30-50066-0343	9054	1009	Y		1	0	3	0	13	0	0	10	0	0	0	0	0	1097	3346	8	0	0	1	899
20-Dec-19	ND30-50013-0457	8834	8834	N	N	0	0	3	1	13	0	0	11	0	0	0	0	0	1126	3366	8	0	1	1	928
22-Oct-19	ND30-49311-0489	8446	400	U		1	1	3	1	10	0	0	8	0	0	0	0	0	1170	3723	8	0	1	1	934

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	V40	V1	ST	OXI	SUL	NIT	A
23-Jun-20	ND30-50223-0559	9574	500	CHEVRON		30	N	Y	10.6	88.6	102	0	6	13	4	N
25-Feb-20	ND30-50066-0343	9054	1009	CHEVRON		30	Y		11.0	90.1	108	0	5	13	4	N
20-Dec-19	ND30-50013-0457	8834	8834	CHEVRON		30	N	N	10.7	90.0	102	0	5	12	4	N
22-Oct-19	ND30-49311-0489	8446	400	CHEVRON	UNKNOWN	30	U		11.1	89.7	110	0	6	13	4	N

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	ISO	4μ	6μ	10μ	14μ	18μ	21μ	36μ	50μ	W
23-Jun-20	ND30-50223-0559	N	Y	21/9/17	19/48	4990	1924	1042	597	398	28	3	N
25-Feb-20	ND30-50066-0343	Y		22/18/12	25649	1735	99	21	11	8	3	2	N
20-Dec-19	ND30-50013-0457	N	N	22/17/12	22005	1187	69	32	17	9	1	0	N
22-Oct-19	ND30-49311-0489	U		21/9/16	16396	4418	1124	358	117	56	2	0	N

A = Antifreeze, Ag = Silver, Al = Aluminum, B = Boron, Ba = Barium, Ca = Calcium, Cr = Chromium, Cu = Copper, Fe = Iron, ISO = ISO Rating, K = Potassium, Mg = Magnesium, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100C, V40 = Viscosity@40C, V1 = Viscosity Index, W = Water, Zn = Zinc

Notice: This analysis is intended as an aid in predicting mechanical wear. No guarantee, expressed or implied, is made against failure of this piece of equipment or a component thereof.



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FAX:
Email: TERRY.

Interp By: Peter Lewandowski

EQUIPMENT

EQUIP NUM: 14611
SERIAL NUMBER: R9J01266
MODEL: 14M
MANUFACTURER: CAT
COMPANY NAME: WHEATLAND COUNTY

JOB SITE:
AREA:
REGION:

SAMPLE INFORMATION

COMPARTMENT NAME: ENGINE
COMP SERIAL NUM:
COMPARTMENT MODEL:
LABEL#: 200094868
SHOP JOB NUM:
SAMPLE TYPE: OIL
SAMPLE SHIP TIME (days): 48
SAMPLE LOCATION:

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

No Action
Required

LAB #

N030-50223-0558

PROCESS 8/10/2020

DATE

WEAR/CONTAMINATION - ADDITIVE/FORMULATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Na	K	Si	Al	Fe	Cr	Pb	Cu	Sn	Ni	Ag	Ti	V	Zn	Ca	Mg	Ba	B	Mo	P
23-Jun-20	N030-50223-0558	9574	5024	Y	Y	4	3	4	0	8	0	0	68	0	0	0	0	0	774	1207	656	0	69	0	693
28-Apr-20	N030-50125-0479	9316	250	Y	Y	3	3	4	0	7	0	0	163	0	0	0	0	0	817	1244	657	0	78	1	710
25-Feb-20	N030-50066-0346	9054	250	Y	Y	4	3	4	0	8	0	1	564	0	0	0	1	0	792	1212	673	0	70	1	746
20-Dec-19	N030-50013-0455	8834	8834	N	N	3	3	4	1	3	0	1	126	0	0	0	1	0	885	1355	645	0	82	1	770

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	V40	VI	ST	OXI	SUL	NIT	A	F
23-Jun-20	N030-50223-0558	9574	5024	CHEVRON	DELO SYN	5W-40	Y	Y	13.5	80.6	171	8	14	19	8	N	N
28-Apr-20	N030-50125-0479	9316	250	CHEVRON	DELO SYN	5W-40	Y	Y	13.8	82.5	172	8	13	19	8	N	N
25-Feb-20	N030-50066-0346	9054	250	CHEVRON		5W-40	Y	Y	13.8	83.6	170	12	13	18	8	N	N
20-Dec-19	N030-50013-0455	8834	8834	CHEVRON		5W-40	N	N	14.4	89.9	168	1	12	18	6	N	N

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	W
23-Jun-20	N030-50223-0558	Y	Y	N
28-Apr-20	N030-50125-0479	Y	Y	N
25-Feb-20	N030-50066-0346	Y	Y	N
20-Dec-19	N030-50013-0455	N	N	N

A = Antifreeze, Ag = Silver, Al = Aluminum, B = Boron, Ba = Barium, Ca = Calcium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mo = Molybdenum, NIT = Nitrogen, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100c, V40 = Viscosity@40c, VI = Viscosity Index, W = Water, Zn = Zinc

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CONTACT INFORMATION

EQUIPMENT

SAMPLE INFORMATION

TERRY SMITH

WHEATLAND COUNTY

HWY 1 RR 1

STRATHMORE, AB

CAN T1P 1J6

PHONE: 403-934-3284

FAX:

Email: TERRY.

EQUIP NUM: 14611

SERIAL NUMBER: R9J01266

MODEL: 14M

MANUFACTURER: CAT

COMPANY NAME: WHEATLAND COUNTY

JOB SITE:

AREA:

REGION:

COMPARTMENT NAME: HYDRAULIC SYSTEM

COMP SERIAL NUM:

COMPARTMENT MODEL:

LABEL#: 200108491

SHOP JOB NUM:

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days): 48

SAMPLE LOCATION:

Inter By: Peter Lewandowski

No Action
Required

WEAR METAL ANALYSIS INDICATES ACCEPTABLE WEAR RATE. OIL CONDITION ANALYSIS IS ACCEPTABLE. PARTICLE COUNT READING EXCEEDS RECOMMENDED CLEANLINESS LEVEL. RECOMMEND THE USE OF A ULTRA HIGH EFFICIENCY FILTER TO REDUCE EXCESS PARTICULATE IN SYSTEM. SEE THE CAT FILTER AND FLUID APPLICATION GUIDE FOR APPROPRIATE FILTER. RESAMPLE AT THE NEXT SERVICE INTERVAL.

LAB #

N030-50223-0560

PROCESS 8/10/2020

DATE

WEAR/CONTAMINATION - ADDITIVES/FORULATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Na	K	SI	Al	Fe	Cr	Pb	Cu	Sn	Ni	Ag	Ti	V	Zn	Ca	Mg	Ba	B	Mo	P
23-Jun-20	N030-50223-0560	9574	4000	N	Y	4	1	14	3	7	0	0	3	0	1	0	0	0	1181	2902	11	0	1	0	991
25-Feb-20	N030-50066-0342	9054	1000	N	Y	4	2	5	1	6	0	0	3	0	0	0	0	0	1166	2764	9	0	1	1	994
20-Dec-19	N030-50013-0458	8834	8834	N	N	3	1	4	1	5	0	0	3	0	0	0	0	0	1263	2995	9	0	1	0	969
22-Oct-19	N030-49311-0471	8446	400	N	N	3	1	4	2	5	0	0	3	0	0	0	0	0	1292	3159	10	0	1	0	1036

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	V40	V1	ST	OXI	SUL	NIT	A
23-Jun-20	N030-50223-0560	9574	4000	CHEVRON		5W-20	N	Y	7.8	39.7	171	0	31	41	4	N
25-Feb-20	N030-50066-0342	9054	1000	CHEVRON		5W-20	N	Y	8.2	40.1	185	0	31	41	3	N
20-Dec-19	N030-50013-0458	8834	8834	CHEVRON		5W-20	N	N	8.1	40.1	181	0	31	41	3	N
22-Oct-19	N030-49311-0471	8446	400	CHEVRON		5W-20	N	N	8.4	42.0	181	0	33	43	4	N

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	ISO	4µ	6µ	10µ	14µ	18µ	21µ	38µ	50µ	W
23-Jun-20	N030-50223-0560	N	Y	23/23/21	762/5	544/76	246/04	108/13	436/5	219/2	22	3	N
25-Feb-20	N030-50066-0342	N	Y	22/20/15	230/89	743/8	867	164	76	47	14	10	N
20-Dec-19	N030-50013-0458	N	N	18/16/13	1740	472	109	43	17	7	0	0	N
22-Oct-19	N030-49311-0471	N	N	20/19/14	5717	2527	694	151	53	29	2	1	N

A = Anticrease, Ag = Silver, Al = Aluminum, B = Barium, Ba = Barium, Ca = Calcium, Cr = Chromium, Cu = Copper, Fe = Iron, ISO = ISO Rating, K = Potassium, Mg = Magnesium, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, Pb = Lead, SI = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100c, V40 = Viscosity@40c, V1 = Viscosity Index, W = Water, Zn = Zinc

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