

ENGINE

EQUIP NUM: 14522

SERIAL NUMBER: V33002EC3675

N030-53023-0860

LABEL#: 200983310

SAMPLE SHIP TIME (days) : 6

WHEATLAND COUNTY

RECEIVED DATE: 23-Jan-23

KUBOTA V3300BG



No Action Required

Interp By: Gregory Scribner

Interpreted On: 26-Jan-23

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

SAMPLE INFORMATION

	17-Jan-23	06-Jan-22	20-Feb-20	22-Jan-20
Sampled Date	17-Jan-23	06-Jan-22	20-Feb-20	22-Jan-20
Sample Id	N030-53023-0860	N030-52013-0275	N030-50066-0348	N030-50034-0499
Lab Date	23-Jan-23	13-Jan-22	06-Mar-20	03-Feb-20
Meter [Hr]	17610	17152	16850	0
Comp Meter [Hr]	17610	17152	16850	0
Meter On Fluid	250	250	250	250
Fluid Brand	CHEVRON	CHEVRON	CHEVRON	CHEVRON
Fluid Weight	5W-40	5W-40	5W-40	5W-40
Fluid Type	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Make Up Fluid [L]			14	
Kidney Loop	U	U	U	U

CONDITION / CONTAMINATION

		17-Jan-23	06-Jan-22	20-Feb-20	22-Jan-20
VISCOSITY (Centistokes)					
V100	Viscosity at 100 C	15.60	16.5	16.6	17.2

VISCOSITY (Centistokes)					
V40	Viscosity at 40 C	100.4	105.9	113.2	118.1

VISCOSITY INDEX					
VI	Viscosity Index	165	169	159	160

INFRARED (UFM)					
ST	Soot	0	0	0	0
OXI	Oxidation	22	20	21	25
SUL	Sulfur Products	22	20	21	22
NIT	Nitration	11	11	11	12

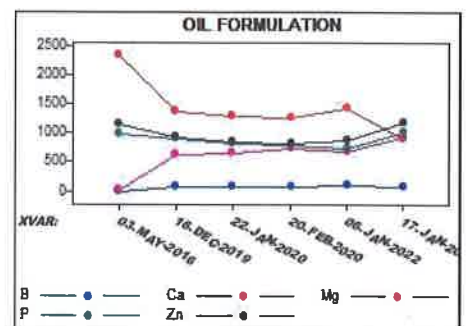
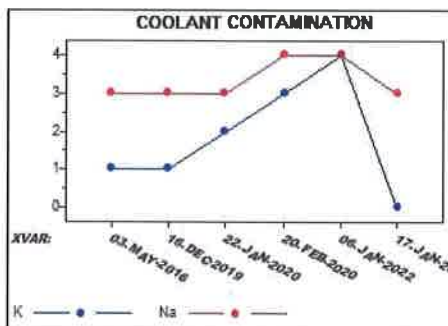
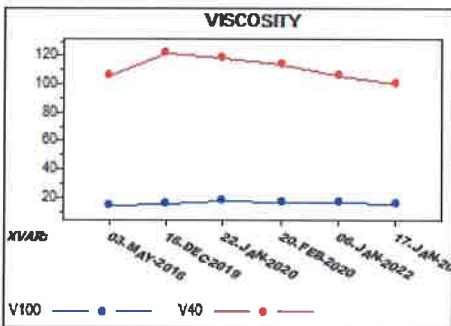
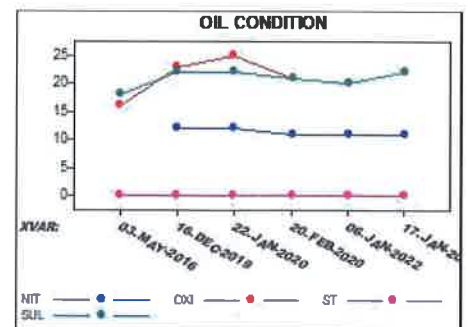
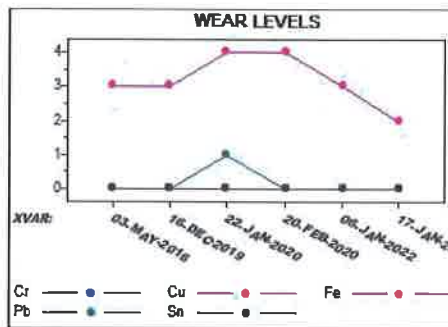
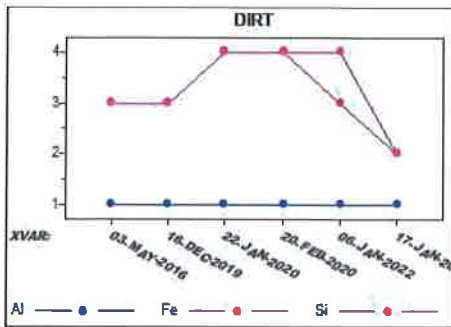
ANTIFREEZE					
A	Antifreeze	N	N	N	N

FUEL					
F	Fuel	N	N	N	N

WATER					
W	Water	N	N	N	N

WEAR LEVELS / ADDITIVES

		17-Jan-23	06-Jan-22	20-Feb-20	22-Jan-20
ELEMENTAL ANALYSIS (ppm)					
Na	Sodium	3	4	4	3
K	Potassium	0	4	3	2
Si	Silicon	2	4	4	4
Al	Aluminum	1	1	1	1
Fe	Iron	2	3	4	4
Cr	Chromium	0	0	0	0
Pb	Lead	0	0	0	1
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	1	0
V	Vanadium	0	0	0	0
Zn	Zinc	1160	866	811	855
Ca	Calcium	893	1414	1243	1279
Mg	Magnesium	936	672	721	658
Ba	Barium	0	0	0	0
B	Boron	61	88	80	85
Mo	Molybdenum	50	0	1	2
P	Phosphorus	1019	741	790	801



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

EQUIP NUM: 154/14522

SERIAL NUMBER: CW00029778

KUBOTA GENERATOR

No Action Required

Interp By: Gregory Scribner

Interpreted On: 13-Dec-22

N030-52346-0064

LABEL#: 200954124

SAMPLE SHIP TIME (days) : 7

WHEATLAND COUNTY

RECEIVED DATE: 12-Dec-22

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 05-Dec-22
 Sample Id N030-52346-0064
 Lab Date 12-Dec-22
 Meter [Hr] 17400
 Comp Meter [Hr] 17400
 Meter On Fluid 250
 Fluid Brand CHEVRON
 Fluid Weight 5W-40
 Fluid Type
 Fluid Change Y
 Filter Change Y
 Kidney Loop U

CONDITION / CONTAMINATION

05-Dec-22

VISCOSITY (Centistokes)

V100 Viscosity at 100 C 14.30

VISCOSITY (Centistokes)

V40 Viscosity at 40 C 93.90

VISCOSITY INDEX

VI Viscosity Index 157

INFRARED (UFM)

ST Soot 0
 OXI Oxidation 20
 SUL Sulfur Products 21
 NIT Nitration 11

ANTIFREEZE

A Antifreeze N

FUEL

F Fuel N

WATER

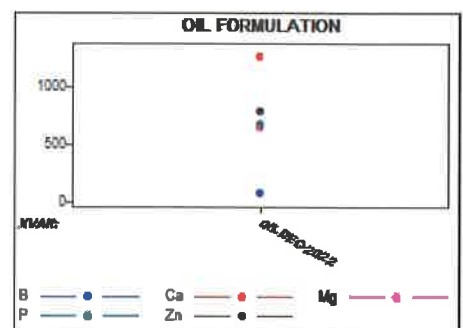
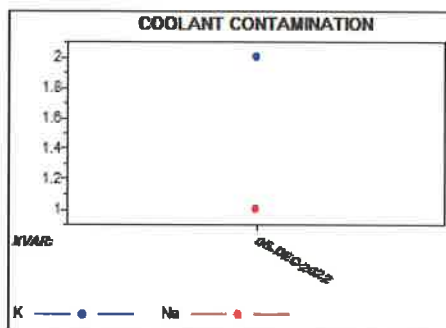
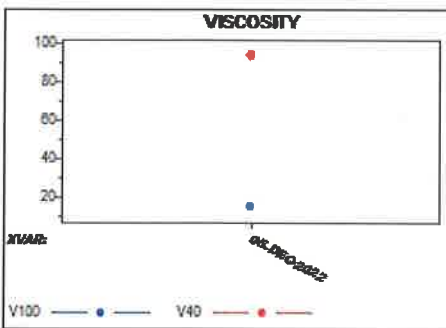
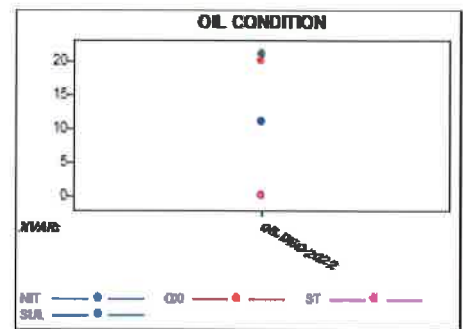
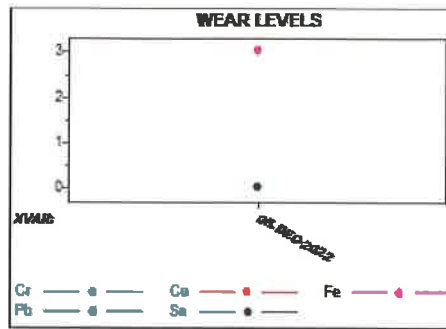
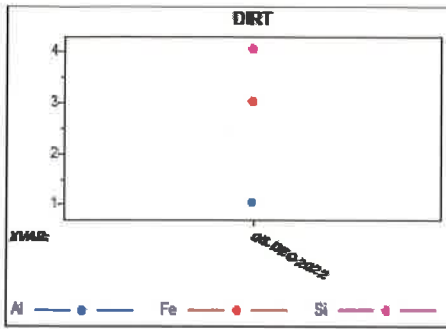
W Water N

WEAR LEVELS / ADDITIVES

05-Dec-22

ELEMENTAL ANALYSIS (ppm)

Na Sodium 1
 K Potassium 2
 Si Silicon 4
 Al Aluminum 1
 Fe Iron 3
 Cr Chromium 0
 Pb Lead 0
 Cu Copper 0
 Sn Tin 0
 Ni Nickel 0
 Ag Silver 0
 Ti Titanium 1
 V Vanadium 0
 Zn Zinc 770
 Ca Calcium 1253
 Mg Magnesium 643
 Ba Barium 0
 B Boron 79
 Mo Molybdenum 0
 P Phosphorus 663



Report Comment

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ENGINE
EQUIP NUM: 14522
SERIAL NUMBER: V33002EC3675
KUBOTA V3300BG
No Action Required
Interp By: Fluid Interpreter
Interpreted On: 13-Jan-22
N030-52013-0275

LABEL#: 200831335

SAMPLE SHIP TIME (days) : 7

WHEATLAND COUNTY

RECEIVED DATE: 13-Jan-22

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

SAMPLE INFORMATION

Sampled Date	06-Jan-22	20-Feb-20	22-Jan-20	16-Dec-19
Sample Id	N030-52013-0275	N030-50066-0348	N030-50034-0499	N030-50013-0489
Lab Date	13-Jan-22	06-Mar-20	03-Feb-20	13-Jan-20
Meter [Hr]	17152	16850	0	16230
Comp Meter [Hr]	17152	16850	0	16230
Meter On Fluid	250	250	250	537
Fluid Brand	CHEVRON	CHEVRON	CHEVRON	CHEVRON
Fluid Weight	5W-40	5W-40	5W-40	5W-40
Fluid Type	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Make Up Fluid [L]		14		
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

		06-Jan-22	20-Feb-20	22-Jan-20	16-Dec-19
VISCOSITY (Centistokes)					
V100	Viscosity at 100 C	16.5	16.6	17.2	15.4
VISCOSITY (Centistokes)					
V40	Viscosity at 40 C	105.9	113.2	118.1	121.2

VISCOSITY INDEX

VI	Viscosity Index	169	159	160	133
----	-----------------	-----	-----	-----	-----

INFRARED (UFM)

ST	Soot	0	0	0	0
OXI	Oxidation	20	21	25	23
SUL	Sulfur Products	20	21	22	22
NIT	Nitration	11	11	12	12

ANTIFREEZE

A	Antifreeze	N	N	N	N
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FUEL

F	Fuel	N	N	N	N
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WATER

W	Water	N	N	N	N
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WEAR LEVELS / ADDITIVES

06-Jan-22 20-Feb-20 22-Jan-20 16-Dec-19

ELEMENTAL ANALYSIS (ppm)

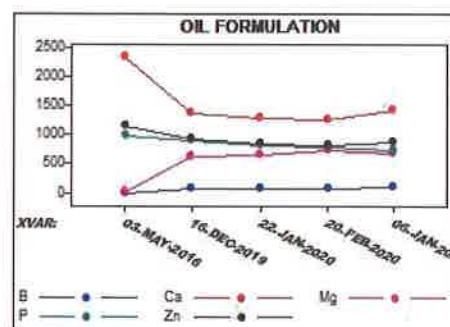
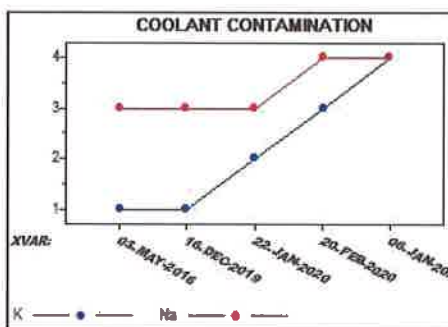
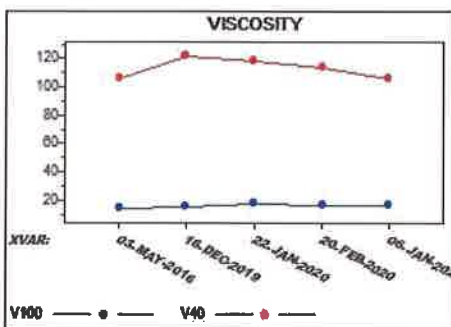
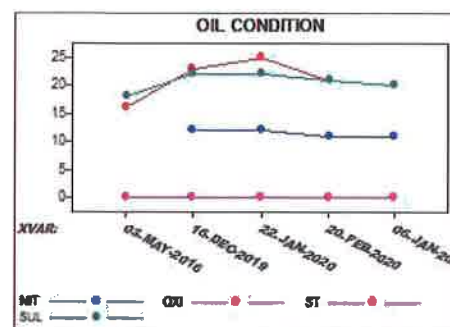
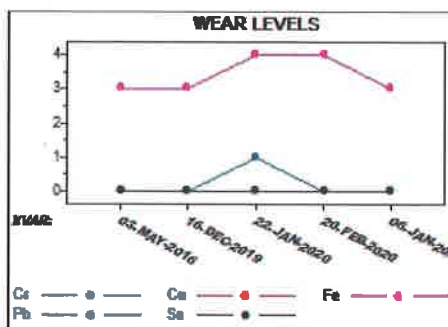
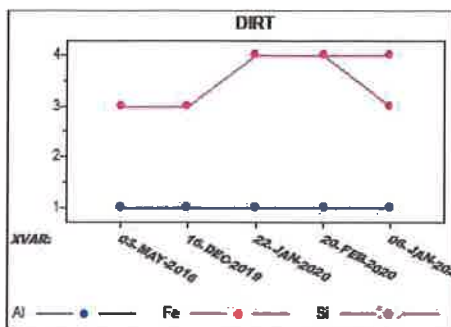
Na	Sodium	4	4	3	3
K	Potassium	4	3	2	1
Si	Silicon	4	4	4	3
Al	Aluminum	1	1	1	1
Fe	Iron	3	4	4	3
Cr	Chromium	0	0	0	0
Pb	Lead	0	0	1	0
Cu	Copper	0	0	0	0
Sn	Tin	0	0	0	0
Ni	Nickel	0	0	0	0
Ag	Silver	0	0	0	0
Ti	Titanium	0	1	0	0
V	Vanadium	0	0	0	0
Zn	Zinc	866	811	855	911
Ca	Calcium	1414	1243	1279	1367
Mg	Magnesium	672	721	658	617
Ba	Barium	0	0	0	0
B	Boron	88	80	85	61
Mo	Molybdenum	0	1	2	8
P	Phosphorus	741	790	801	896

ENGINE
 SERIAL NUMBER: V33002EC3675
 EQUIP NUM: 14522
 KUBOTA V3300BQ

N030-S2013-0275



No Action Required



Report Comment

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CAN T1P 1J6
PHONE: 403-934-3284
FAX:
Email: TERRY.

Inter By: Gregory Scribner

EQUIPMENT

CUSTOMER EQUIP NUM : 14522
SERIAL NUMBER : V33002EC3675
MODEL : V3300BG
MANUFACTURER : KUBOTA
COMPANY NAME : WHEATLAND COUNTY

AREA:
JOB SITE :
REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE
COMP SERIAL NUM :
COMPARTMENT MODEL :
LABEL#: 200263695
SHOP JOB NUM :
SAMPLE TYPE: OIL
SAMPLE SHIP TIME (days) : 15
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 #

ND30-50066-0348

PROCESS 3/6/2020

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
20-Feb-20	ND30-50066-0348	16650	250	Y	Y	4	3	4	1	4	0	0	0	0	0	0	1	0	811	1243	721	0	80	1	790
22-Jan-20	ND30-50034-0469	0	250	Y	Y	3	2	4	1	4	0	1	0	0	0	0	0	0	855	1279	656	0	85	2	801
16-Dec-19	ND30-50013-0489	16230	537	Y	Y	3	1	3	1	3	0	0	0	0	0	0	0	0	911	1367	617	0	61	8	896
03-May-16	ND30-46134-0110	957	517	U	U	3	1	3	1	3	0	0	0	<0	0	0	0	0	1135	2312	8	0	2	0	982

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
20-Feb-20	ND30-50066-0348	16650	250	CHEVRON	UNKNOWN	5W-40	Y	Y	16.6	113.2	159	0	21	21	11	N	N
22-Jan-20	ND30-50034-0469	0	250	CHEVRON	UNKNOWN	5W-40	Y	Y	17.2	118.1	160	0	25	22	12	N	N
16-Dec-19	ND30-50013-0489	16230	537	CHEVRON	UNKNOWN	5W-40	Y	Y	15.4	121.2	133	0	23	22	12	N	N
03-May-16	ND30-46134-0110	957	517	PETRO-CAN	UNKNOWN	0W-40	U	U	14.5	106.3		0	16	18		N	NT

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	W
20-Feb-20	ND30-50066-0348	Y	Y	N
22-Jan-20	ND30-50034-0469	Y	Y	N
16-Dec-19	ND30-50013-0489	Y	Y	N
03-May-16	ND30-46134-0110	U	U	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, Ni = Nickel, OXI = Oxidation, P = Phosphorus, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Viscosity@100C, V40 = Viscosity@40C, VI = 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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CONTACT INFORMATION

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

EQUIPMENT

CUSTOMER EQUIP NUM : 14522
SERIAL NUMBER : V33002EC3675
MODEL : V3300BG
MANUFACTURER : KUBOTA
COMPANY NAME : WHEATLAND COUNTY
JOB SITE :
AREA:
REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE
COMP SERIAL NUM :
COMPARTMENT MODEL :
LABEL#: 200256184
SHOP JOB NUM :
SAMPLE TYPE: OIL
SAMPLE SHIP TIME (days) : 12
SAMPLE LOCATION :

Interp By: Gregory Scribner

No Action
Required

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

LAB #

N030-50034-0499

PROCESS DATE 03-Feb-20

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
22-Jan-20	N030-50034-0499	0	250	Y	Y	3	2	4	1	4	0	1	0	0	0	0	0	0	855	1279	658	0	85	2	801
16-Dec-19	N030-50013-0489	16230	537	Y	Y	3	1	3	1	3	0	0	0	0	0	0	0	0	911	1367	617	0	61	8	896
03-May-16	N030-48134-0110	957	517	U	U	3	1	3	1	3	0	0	0	<0	0	0	0	0	1135	2312	8	0	2	0	882
09-Jan-15	N030-45028-0222	957	540	N	U	1	1	11	2	6	0	0	2	0	0	<0	0	<0	1059	1889	116	1	2	5	851

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
22-Jan-20	N030-50034-0499	0	250	CHEVRON	UNKNOWN	5W-40	Y	Y	17.2	118.1	160	0	25	22	12	N	N
16-Dec-19	N030-50013-0489	16230	537	CHEVRON	UNKNOWN	5W-40	Y	Y	15.4	121.2	133	0	23	22	12	N	N
03-May-16	N030-48134-0110	957	517	PETRO-CAN	UNKNOWN	0W-40	U	U	14.5	106.3		0	16	18		N	NT
09-Jan-15	N030-45028-0222	957	540	PETRO-CAN	UNKNOWN	0W-40	N	U	12.4	75.7		0	15	16		N	T

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	W
22-Jan-20	N030-50034-0499	Y	Y	N
16-Dec-19	N030-50013-0489	Y	Y	N
03-May-16	N030-48134-0110	U	U	N
09-Jan-15	N030-45028-0222	N	U	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, Ni = Nickel, Na = Sodium, Pb = Lead, 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

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

Interp By: Greg Eyre

EQUIPMENT

CUSTOMER EQUIP NUM : 14522
SERIAL NUMBER : W056307
MODEL : ZZZ_KUBOTA
MANUFACTURER : KUBOTA
COMPANY NAME : WHEATLAND COUNTY
JOB SITE :
AREA:
REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE
COMP SERIAL NUM :
COMPARTMENT MODEL :
LABEL#: 200035222
SHOP JOB NUM :
SAMPLE TYPE: OIL
SAMPLE SHIP TIME (days) : 28
SAMPLE LOCATION :

No Action
Required

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

LAB #

N030-50013-0489

PROCESS DATE 13-Jan-20

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
16-Dec-19	N030-50013-0489	16230	537	Y	Y	3	1	3	1	3	0	0	0	0	0	0	0	0	911	1367	617	0	61	8	896
03-May-16	N030-46134-0110	957	517	U	U	3	1	3	1	3	0	0	0	<0	0	0	0	0	1135	2312	8	0	2	0	982
09-Jan-15	N030-45028-0222	957	540	N	U	1	1	11	2	6	0	0	2	0	0	<0	0	<0	1059	1889	116	1	2	5	851

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
16-Dec-19	N030-50013-0489	16230	537	CHEVRON	UNKNOWN	5W-40	Y	Y	15.4	121.2	133	0	23	22	12	N	N
03-May-16	N030-46134-0110	957	517	PETRO-CAN	UNKNOWN	0W-40	U	U	14.5	106.3		0	16	18		N	NT
09-Jan-15	N030-45028-0222	957	540	PETRO-CAN	UNKNOWN	0W-40	N	U	12.4	75.7		0	15	18		N	T

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	W
16-Dec-19	N030-50013-0489	Y	Y	N
03-May-16	N030-46134-0110	U	U	N
09-Jan-15	N030-45028-0222	N	U	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 = 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, VI = 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.