


ENGINE

EQUIP NUM: LD624

SERIAL NUMBER: DCD290142

DEERE 2954D

 No Action Required

Interp By: Peter Lewandowski

Interpreted On: 18-Feb-22

N030-52048-0545

LABEL#: 200755273

SAMPLE SHIP TIME (days) : 9

GALENA CONTRACTORS

LTD

RECEIVED DATE: 17-Feb-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

	08-Feb-22	23-Sep-21	21-Jun-21	06-May-21
Sample Id	N030-52048-0545	N030-51273-0217	N030-51190-0186	N030-51133-0252
Lab Date	17-Feb-22	30-Sep-21	09-Jul-21	13-May-21
Meter [Hr]	13927	13648	13365	13084
Comp Meter [Hr]	13927	13648	13365	1348
Meter On Fluid	279	283	281	263
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	10W-30	15W-40	15W-40	15W-40
Fluid Type	DURON HP	DURON HP	DURON HP	DURON HP
Oil Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
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

08-Feb-22 23-Sep-21 21-Jun-21 06-May-21

VISCOSITY (Centistokes)

V100 Viscosity at 100 C 14.00 14.3 14.4 14.1

VISCOSITY (Centistokes)

V40 Viscosity at 40 C 103.9 108.4 106.0 107.5

VISCOSITY INDEX

VI Viscosity Index 136 134 139 133

WEAR LEVELS / ADDITIVES

08-Feb-22 23-Sep-21 21-Jun-21 06-May-21

ELEMENTAL ANALYSIS (ppm)

Na Sodium	0	1	0	2
K Potassium	0	0	0	0
Si Silicon	2	3	2	2
Al Aluminum	1	1	1	1
Fe Iron	15	18	16	12
Cr Chromium	1	1	0	0
Pb Lead	0	0	0	0
Cu Copper	1	1	1	1
Sn Tin	0	0	0	0
Ni Nickel	1	1	0	0
Ag Silver	0	0	0	0
Ti Titanium	0	0	0	0
V Vanadium	0	0	0	0
Zn Zinc	1313	1341	1349	1128
Ca Calcium	1151	1184	1163	1017
Mg Magnesium	853	1031	963	980
Ba Barium	0	0	0	0
B Boron	2	1	1	3
Mo Molybdenum	56	62	58	53
P Phosphorus	1060	1080	1038	933

INFRARED (UFM)

ST Soot 15 26 24 15

OXI Oxidation 14 14 14 14

SUL Sulfur Products 18 20 20 19

NIT Nitration 6 6 6 6

ANTIFREEZE

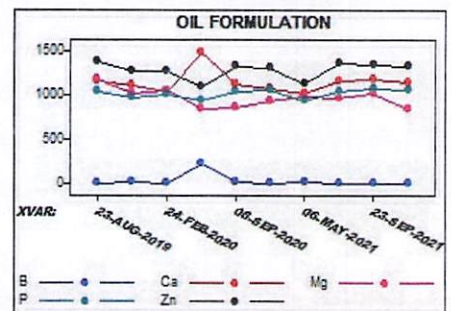
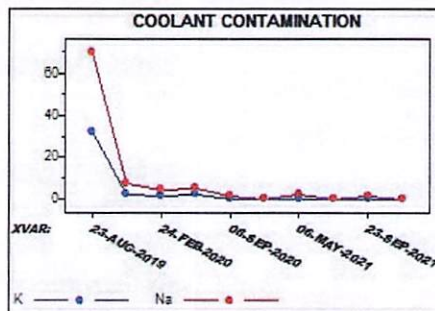
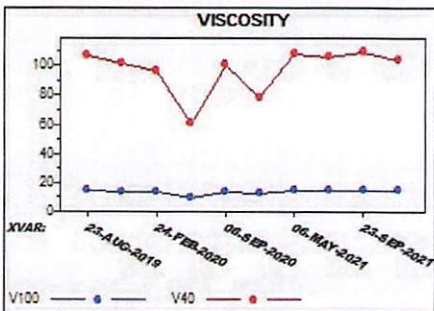
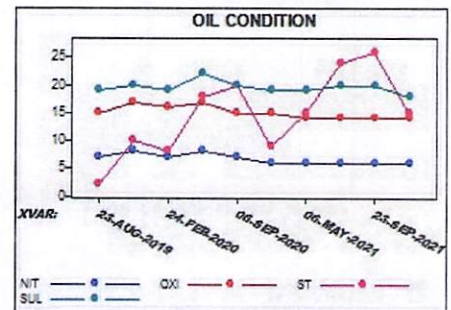
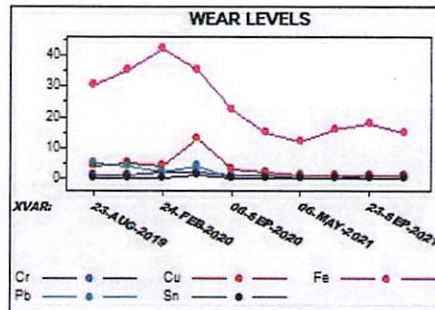
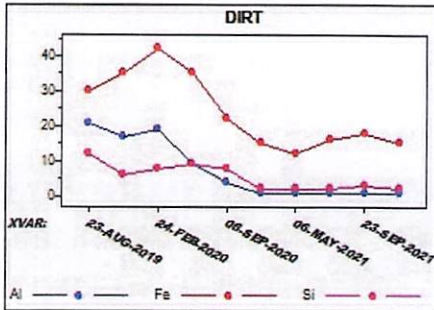
A Antifreeze N N N N

FUEL

F Fuel N N N N

WATER

W Water N N N N



Report Comment

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h8bREJUVrs>. 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: LD624

SERIAL NUMBER: DCD290142

N030-51295-0480

LABEL#: 200755773

SAMPLE SHIP TIME (days) : 10

GALENA CONTRACTORS

LTD

RECEIVED DATE: 22-Oct-21

DEERE 2954D



No Action Required

Interp By: Fluid Interpreter

Interpreted On: 25-Oct-21

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

SAMPLE INFORMATION

	12-Oct-21	21-Mar-19
Sampled Date	12-Oct-21	21-Mar-19
Sample Id	N030-51295-0480	N030-49087-0432
Lab Date	22-Oct-21	28-Mar-19
Meter [Hr]	13698	9941
Comp Meter [Hr]	998	9941
Meter On Fluid	998	9941
Fluid Brand	PETRO-CAN	PETRO-CAN
Fluid Weight	46-ISO	32-ISO
Fluid Type	HYDREX AW	HYDREX AW
Fluid Change	N	N
Filter Change	Y	Y
Kidney Loop	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

	12-Oct-21	21-Mar-19
VISCOSITY (Centistokes)		
V100 Viscosity at 100 C	5.6	5.7
VISCOSITY (Centistokes)		
V40 Viscosity at 40 C	31.9	35.0

WEAR LEVELS / ADDITIVES

	12-Oct-21	21-Mar-19
ELEMENTAL ANALYSIS (ppm)		
Na Sodium	1	2
K Potassium	0	1
Si Silicon	1	1
Al Aluminum	0	1
Fe Iron	8	21
Cr Chromium	0	1
Pb Lead	1	0
Cu Copper	1	1
Sn Tin	0	0
Ni Nickel	0	0
Ag Silver	0	0
Ti Titanium	0	0
V Vanadium	0	0
Zn Zinc	394	348
Ca Calcium	37	46
Mg Magnesium	2	2
Ba Barium	0	0
B Boron	0	0
Mo Molybdenum	0	1
P Phosphorus	308	273

	12-Oct-21	21-Mar-19
VISCOSITY INDEX		
VI Viscosity Index	114	102

	12-Oct-21	21-Mar-19
INFRARED (UFM)		
ST Soot	0	0
OXI Oxidation	4	4
SUL Sulfur Products	13	13
NIT Nitration	2	2

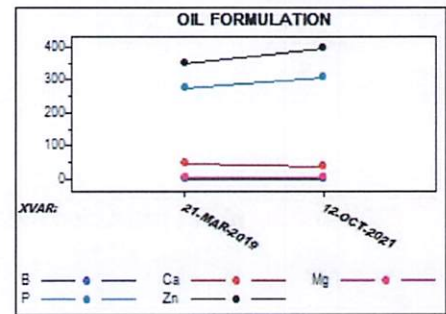
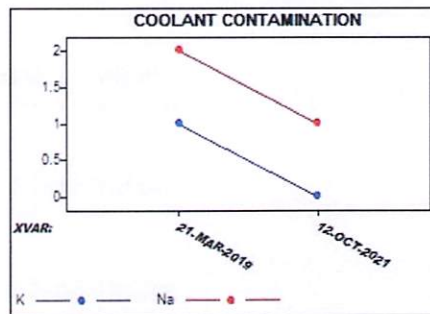
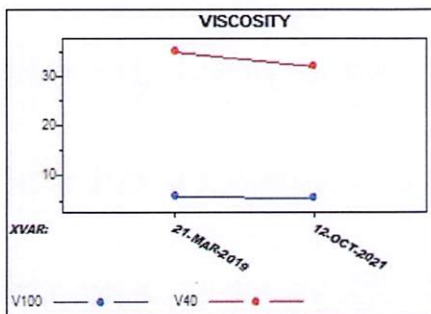
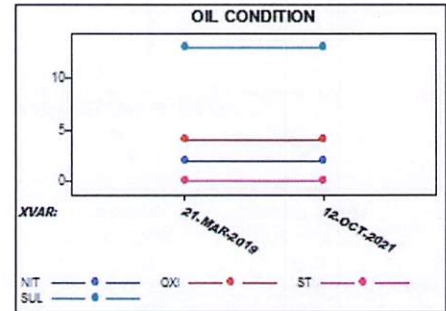
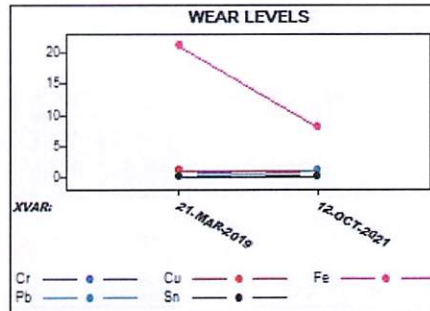
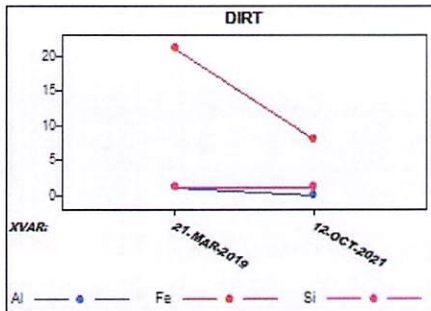
	12-Oct-21	21-Mar-19
ANTIFREEZE		
A Antifreeze	N	N

	12-Oct-21	21-Mar-19
WATER		
W Water	N	N

CLEANLINESS

	12-Oct-21	21-Mar-19
PARTICLE COUNT		
ISO ISO Code Rating	22/17/13	22/19/13
4µ 4µ	21928	25015
6µ 6µ	957	2535
10µ 10µ	150	204
14µ 14µ	56	42
18µ 18µ	22	16
21µ 21µ	14	9
38µ 38µ	2	2
50µ 50µ	1	1

2537



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: LD624

SERIAL NUMBER: DCD290142

DEERE 2954D

 No Action Required

Interp By: Gregory Scribner

Interpreted On: 01-Oct-21

N030-51273-0217

LABEL#: 200768890

SAMPLE SHIP TIME (days) : 7

GALENA CONTRACTORS

LTD

RECEIVED DATE: 30-Sep-21

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

SAMPLE INFORMATION

	23-Sep-21	21-Jun-21	06-May-21	23-Mar-21
Sampled Date	23-Sep-21	21-Jun-21	06-May-21	23-Mar-21
Sample Id	N030-51273-0217	N030-51190-0186	N030-51133-0252	N030-51089-0154
Lab Date	30-Sep-21	09-Jul-21	13-May-21	30-Mar-21
Meter [Hr]	13648	13365	13084	12821
Comp Meter [Hr]	13648	13365	1348	1091
Meter On Fluid	283	281	263	262
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	15W-40	15W-40	15W-40	10W-30
Fluid Type	DURON HP	DURON HP	DURON HP	DURON HP
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
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

		23-Sep-21	21-Jun-21	06-May-21	23-Mar-21
VISCOSITY (Centistokes)					
V100	Viscosity at 100 C	14.3	14.4	14.1	11.8
VISCOSITY (Centistokes)					
V40	Viscosity at 40 C	108.4	106.0	107.5	78.1

WEAR LEVELS / ADDITIVES

	23-Sep-21	21-Jun-21	06-May-21	23-Mar-21	
ELEMENTAL ANALYSIS (ppm)					
Na	Sodium	1	0	2	0
K	Potassium	0	0	0	0
Si	Silicon	3	2	2	2
Al	Aluminum	1	1	1	1
Fe	Iron	18	16	12	15
Cr	Chromium	1	0	0	1
Pb	Lead	0	0	0	0
Cu	Copper	1	1	1	2
Sn	Tin	0	0	0	0
Ni	Nickel	1	0	0	1
Ag	Silver	0	0	0	0
Ti	Titanium	0	0	0	0
V	Vanadium	0	0	0	0
Zn	Zinc	1341	1349	1128	1302
Ca	Calcium	1184	1163	1017	1078
Mg	Magnesium	1031	963	980	931
Ba	Barium	0	0	0	0
B	Boron	1	1	3	1
Mo	Molybdenum	62	58	53	58
P	Phosphorus	1080	1038	933	1056

VISCOSITY INDEX

		23-Sep-21	21-Jun-21	06-May-21	23-Mar-21
VI	Viscosity Index	134	139	133	145

INFRARED (UFM)

		23-Sep-21	21-Jun-21	06-May-21	23-Mar-21
ST	Soot	26	24	15	9
OXI	Oxidation	14	14	14	15
SUL	Sulfur Products	20	20	19	19
NIT	Nitration	6	6	6	6

ANTIFREEZE

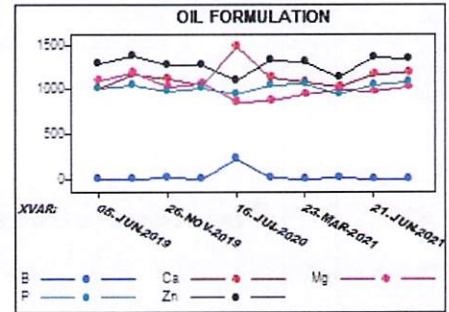
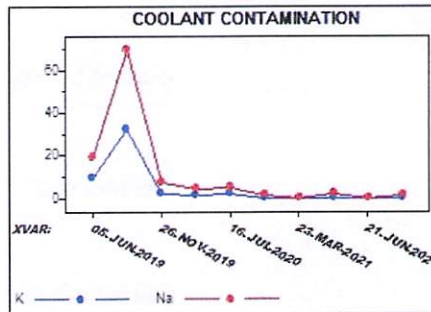
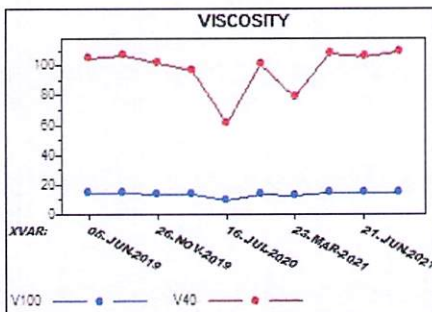
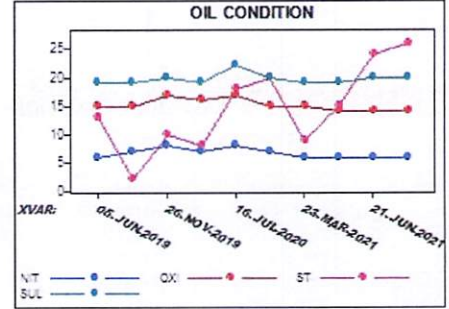
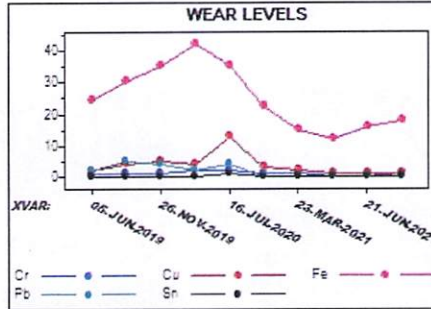
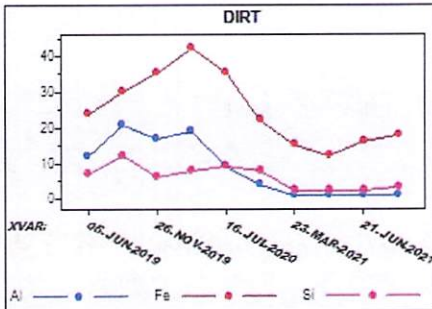
		23-Sep-21	21-Jun-21	06-May-21	23-Mar-21
A	Antifreeze	N	N	N	N

FUEL

		23-Sep-21	21-Jun-21	06-May-21	23-Mar-21
F	Fuel	N	N	N	N

WATER

		23-Sep-21	21-Jun-21	06-May-21	23-Mar-21
W	Water	N	N	N	N



Report Comment

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ENGINE
EQUIP NUM: LD624
SERIAL NUMBER: DCD290142
N030-51133-0252

LABEL#: 200716949

SHOP JOB NUM :

SAMPLE SHIP TIME (days) : 7

**GALENA CONTRACTORS
LTD**
DEERE 2954D

No Action Required
Interp By: Gregory Scribner
Interpreted On: 14-May-21

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

SAMPLE INFORMATION

	06-May-21	23-Mar-21	08-Sep-20	16-Jul-20
Sample Date	06-May-21	23-Mar-21	08-Sep-20	16-Jul-20
Sample Id	N030-51133-0252	N030-51089-0154	N030-50259-0567	N030-50209-0306
Lab Date	13-May-21	30-Mar-21	15-Sep-20	27-Jul-20
Meter [Hr]	13084	12821	12258	11997
Comp Meter [Hr]	1348	1091	528	11997
Meter On Fluid	263	262	261	267
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	15W-40	10W-30	15W-40	15W-40
Fluid Type	DURON HP	DURON HP	DURON HP	DURON HP
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
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-May-21	23-Mar-21	08-Sep-20	16-Jul-20
VISCOSITY (Centistokes)				
V100 Viscosity at 100 C	14.1	11.8	13.4	9.6
VISCOSITY (Centistokes)				
V40 Viscosity at 40 C	107.5	78.1	100.3	60.3

WEAR LEVELS / ADDITIVES

	06-May-21	23-Mar-21	08-Sep-20	16-Jul-20
ELEMENTAL ANALYSIS (ppm)				
Na Sodium	2	0	1	5
K Potassium	0	0	0	2
Si Silicon	2	2	8	9
Al Aluminum	1	1	4	9
Fe Iron	12	15	22	35
Cr Chromium	0	1	1	2
Pb Lead	0	0	0	4
Cu Copper	1	2	3	13
Sn Tin	0	0	0	1
Ni Nickel	0	1	1	0
Ag Silver	0	0	0	0
Ti Titanium	0	0	0	0
V Vanadium	0	0	0	0
Zn Zinc	1128	1302	1311	1088
Ca Calcium	1017	1078	1119	1469
Mg Magnesium	980	931	871	840
Ba Barium	0	0	0	3
B Boron	3	1	12	215
Mo Molybdenum	53	58	72	272
P Phosphorus	933	1056	1048	941

VISCOSITY INDEX

	06-May-21	23-Mar-21	08-Sep-20	16-Jul-20
VI Viscosity Index	133	145	133	142

INFRARED (UFM)

	06-May-21	23-Mar-21	08-Sep-20	16-Jul-20
ST Soot	15	9	20	18
OXI Oxidation	14	15	15	17
SUL Sulfur Products	19	19	20	22
NIT Nitration	6	6	7	8

ANTIFREEZE

	06-May-21	23-Mar-21	08-Sep-20	16-Jul-20
A Antifreeze	N	N	N	N

FUEL

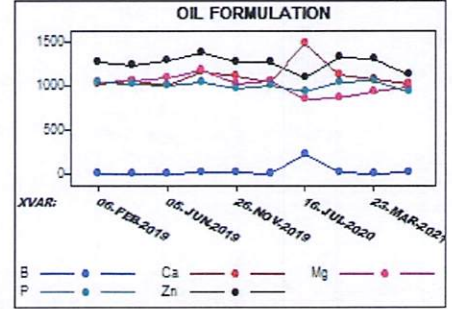
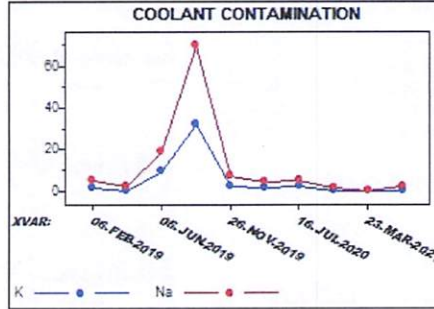
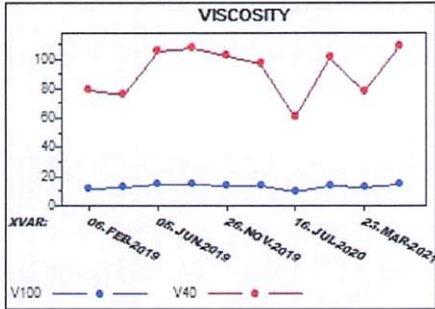
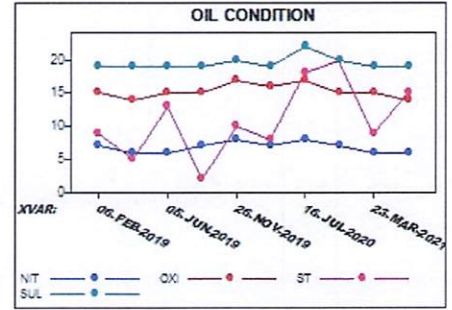
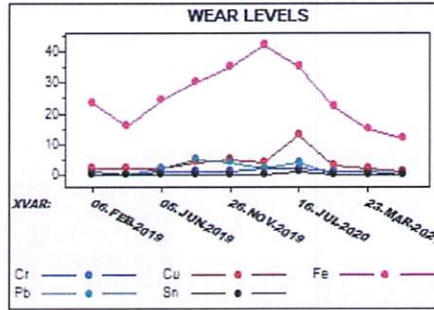
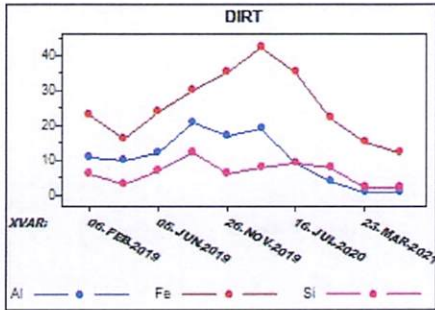
	06-May-21	23-Mar-21	08-Sep-20	16-Jul-20
F Fuel	N	N	N	N

FUEL CONTENT (%)

	06-May-21	23-Mar-21	08-Sep-20	16-Jul-20
PFc Percent Fuel				0.29

WATER

	06-May-21	23-Mar-21	08-Sep-20	16-Jul-20
W Water	N	N	N	N



Report Comment

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ENGINE

EQUIP NUM: LD624

SERIAL NUMBER: DCD290142

N030-51089-0154

DEERE 2954D

No Action Required

Interp By: Peter Lewandowski

LABEL#: 200607509

Interpreted On: 31-Mar-21

SHOP JOB NUM :

SAMPLE SHIP TIME (days) : 7

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

GALENA CONTRACTORS LTD

SAMPLE INFORMATION

	23-Mar-21	08-Sep-20	16-Jul-20	24-Feb-20
Sampled Date	23-Mar-21	08-Sep-20	16-Jul-20	24-Feb-20
Sample Id	N030-51089-0154	N030-50259-0567	N030-50209-0306	N030-50066-0470
Lab Date	30-Mar-21	15-Sep-20	27-Jul-20	06-Mar-20
Meter [Hr]	12821	12258	11997	11511
Comp Meter [Hr]	1091	528	11997	11511
Meter On Fluid	262	261	267	360
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	10W-30	15W-40	15W-40	10W-30
Fluid Type	DURON HP	DURON HP	DURON HP	DURON HP
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
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

	23-Mar-21	08-Sep-20	16-Jul-20	24-Feb-20
VISCOSITY (Centistokes)				
V100 Viscosity at 100 C	11.8	13.4	9.6	13.7

	23-Mar-21	08-Sep-20	16-Jul-20	24-Feb-20
VISCOSITY (Centistokes)				
V40 Viscosity at 40 C	78.1	100.3	60.3	96.3

VISCOSITY INDEX

	23-Mar-21	08-Sep-20	16-Jul-20	24-Feb-20
VI Viscosity Index	145	133	142	144

INFRARED (UFM)

	23-Mar-21	08-Sep-20	16-Jul-20	24-Feb-20
ST Soot	9	20	18	8
OXI Oxidation	15	15	17	16
SUL Sulfur Products	19	20	22	19
NIT Nitration	6	7	8	7

ANTIFREEZE

	23-Mar-21	08-Sep-20	16-Jul-20	24-Feb-20
A Antifreeze	N	N	N	N

FUEL

	23-Mar-21	08-Sep-20	16-Jul-20	24-Feb-20
F Fuel	N	N	N	N

FUEL CONTENT (%)

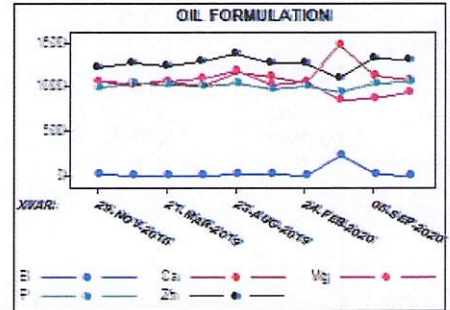
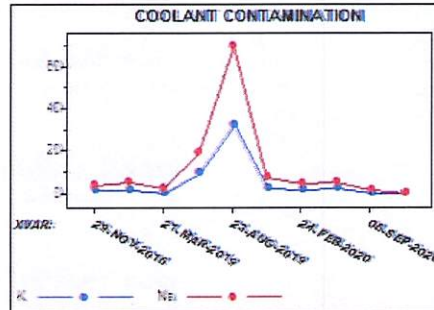
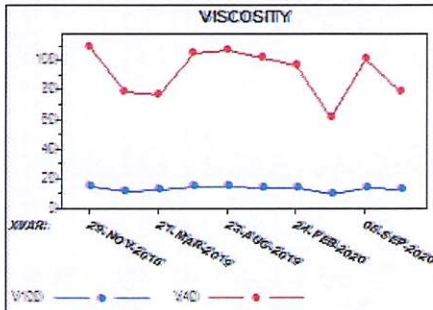
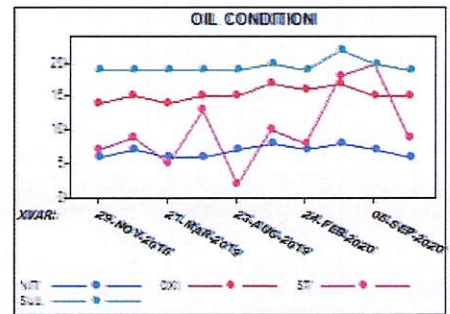
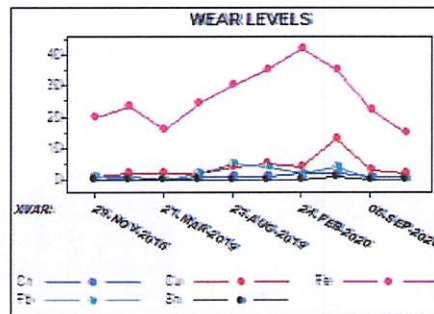
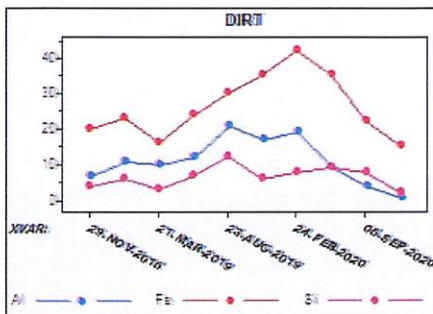
	23-Mar-21	08-Sep-20	16-Jul-20	24-Feb-20
PFc Percent Fuel			0.29	

WATER

	23-Mar-21	08-Sep-20	16-Jul-20	24-Feb-20
W Water	N	N	N	N

WEAR LEVELS / ADDITIVES

	23-Mar-21	08-Sep-20	16-Jul-20	24-Feb-20
ELEMENTAL ANALYSIS (ppm)				
Na Sodium	0	1	5	4
K Potassium	0	0	2	1
Si Silicon	2	8	9	8
Al Aluminium	1	4	9	19
Fe Iron	15	22	35	42
Cr Chromium	1	1	2	2
Pb Lead	0	0	4	2
Cu Copper	2	3	13	4
Sn Tin	0	0	1	0
Ni Nickel	1	1	0	2
Ag Silver	0	0	0	0
Ti Titanium	0	0	0	0
V Vanadium	0	0	0	0
Zn Zinc	1302	1311	1088	1265
Ca Calcium	1078	1119	1469	1032
Mg Magnesium	931	871	840	1049
Ba Barium	0	0	3	0
B Boron	1	12	215	1
Mo Molybdenum	58	72	272	65
P Phosphorus	1056	1048	941	1001



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.

CONTACT INFORMATION

KEVIN CARTER
 GALENA CONTRACTORS LTD
 BOX 70 - 100 Mill Rd
 NAKUSP, BC
 V0G 1R0
 PHONE: 2502654100
 FAX: 2502653831
 Email:

EQUIPMENT

EQUIP NUM: LD624
 SERIAL NUMBER: DCD290142
 MODEL : 2954D
 MANUFACTURER : DEERE
 COMPANY NAME : GALENA CONTRACTORS LTD
 JOB SITE :
 AREA:
 REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE
 COMP SERIAL NUM:
 COMPARTMENT MODEL :
 LABEL#: 200440872
 SHOP JOB NUM :
 SAMPLE TYPE: OIL
 SAMPLE SHIP TIME (days) : 7
 SAMPLE LOCATION :

Interp By: Greg Eyre

**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 #

N030-50259-0567

 PROCESS 15-Sep-20
 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
08-Sep-20	N030-50259-0567	12258	261	Y	Y	1	0	8	4	22	1	0	3	0	1	0	0	0	1311	1119	871	0	12	72	1048
16-Jul-20	N030-50209-0306	11997	267	Y	Y	5	2	9	9	35	2	4	13	1	0	0	0	0	1088	1469	840	3	215	272	941
24-Feb-20	N030-50066-0470	11511	360	Y	Y	4	1	8	19	42	2	2	4	0	2	0	0	0	1265	1032	1049	0	1	65	1001
26-Nov-19	N030-49337-0417	11151	577	Y	Y	7	2	6	17	35	1	4	5	0	2	0	0	0	1263	1113	1028	0	3	66	977

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	PFc
08-Sep-20	N030-50259-0567	12258	261	PETRO-CAN	DURON HP	15W-40	Y	Y	13.4	100.3	133	20	15	20	7	N	N	
16-Jul-20	N030-50209-0306	11997	267	PETRO-CAN	DURON HP	15W-40	Y	Y	9.6	60.3	142	18	17	22	8	N	N	0.29
24-Feb-20	N030-50066-0470	11511	360	PETRO-CAN	DURON HP	10W-30	Y	Y	13.7	96.3	144	8	16	19	7	N	N	
26-Nov-19	N030-49337-0417	11151	577	PETRO-CAN	DURON HP	15W-40	Y	Y	13.3	101.7	129	10	17	20	8	N	N	

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	W
08-Sep-20	N030-50259-0567	Y	Y	N
16-Jul-20	N030-50209-0306	Y	Y	N
24-Feb-20	N030-50066-0470	Y	Y	N
26-Nov-19	N030-49337-0417	Y	Y	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.

CONTACT INFORMATION

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 BOX 70 - 100 Mill Rd
 NAKUSP, BC
 V0G 1R0
 PHONE: 2502654100
 FAX: 2502653831
 Email:

Interp By: Greg Eyre

EQUIPMENT

EQUIP NUM: LD624
 SERIAL NUMBER: 290142_N030
 MODEL : 2954D
 MANUFACTURER : DEERE
 COMPANY NAME : GALENA CONTRACTORS LTD
 JOB SITE :
 AREA:
 REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE
 COMP SERIAL NUM:
 COMPARTMENT MODEL :
 LABEL#: 200313192
 SHOP JOB NUM :
 SAMPLE TYPE: OIL
 SAMPLE SHIP TIME (days) : 11
 SAMPLE LOCATION :

**No Action
 Required**

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. VISCOSITY INDICATES 30W OIL; FUEL TEST IS NEGATIVE.
 RESAMPLE TO MONITOR AT NEXT SERVICE INTERVAL.

LAB #

N030-50209-0306

PROCESS 27-Jul-20
 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
16-Jul-20	N030-50209-0306	11997	267	Y	Y	5	2	9	9	35	2	4	13	1	0	0	0	0	1088	1469	840	3	215	272	941
24-Feb-20	N030-50066-0470	11511	360	Y	Y	4	1	8	19	42	2	2	4	0	2	0	0	0	1265	1032	1049	0	1	65	1001
26-Nov-19	N030-49337-0417	11151	577	Y	Y	7	2	6	17	35	1	4	5	0	2	0	0	0	1263	1113	1028	0	3	66	977
23-Aug-19	N030-49254-0618	10574	311	Y	Y	69	32	12	21	30	1	5	4	0	3	0	0	2	1378	1162	1179	0	2	65	1038

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	PGC	F	PFc
16-Jul-20	N030-50209-0306	11997	267	PETRO-CAN	DURON HP	15W-40	Y	Y	9.6	60.3	142	18	17	22	8	N		N	0.29
24-Feb-20	N030-50066-0470	11511	360	PETRO-CAN	DURON HP	10W-30	Y	Y	13.7	96.3	144	8	16	19	7	N		N	
26-Nov-19	N030-49337-0417	11151	577	PETRO-CAN	DURON HP	15W-40	Y	Y	13.3	101.7	129	10	17	20	8	N		N	
23-Aug-19	N030-49254-0618	10574	311	PETRO-CAN	DURON HP	15W-40	Y	Y	14.3	106.6	137	2	15	19	7	N	0	N	

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	W
16-Jul-20	N030-50209-0306	Y	Y	N
24-Feb-20	N030-50066-0470	Y	Y	N
26-Nov-19	N030-49337-0417	Y	Y	N
23-Aug-19	N030-49254-0618	Y	Y	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, PFC = Percent Fuel Content, 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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FINNING

FINNING CANADA LTD. - Fluid Analysis Laboratory, 10910-170th Street, Edmonton, AB, T5S 1H6, CANADA

PHONE: 1-888 FINNING (346-6464)

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

CONTACT INFORMATION

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Interp By: Greg Eyre

EQUIPMENT

CUSTOMER EQUIP NUM : LD624
 SERIAL NUMBER : 290142_N030
 MODEL : 2954D
 MANUFACTURER : DEERE
 COMPANY NAME : GALENA CONTRACTORS LTD
 JOB SITE :
 AREA:
 REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE
 COMP SERIAL NUM :
 COMPARTMENT MODEL :
 LABEL#: 200322432
 SHOP JOB NUM :
 SAMPLE TYPE: OIL
 SAMPLE SHIP TIME (days) : 11
 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 #

N030-50066-0470

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
24-Feb-20	N030-50066-0470	11511	360	Y	Y	4	1	8	19	42	2	2	4	0	2	0	0	0	1265	1032	1049	0	1	65	1001
26-Nov-19	N030-49337-0417	11151	577	Y	Y	7	2	6	17	35	1	4	5	0	2	0	0	0	1263	1113	1028	0	3	66	977
23-Aug-19	N030-49254-0618	10574	311	Y	Y	69	32	12	21	30	1	5	4	0	3	0	0	2	1378	1162	1179	0	2	65	1038
05-Jun-19	N030-49165-0262	10263	322	Y	Y	19	9	7	12	24	1	2	2	0	2	0	0	0	1288	1000	1085	0	1	70	1012

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	PGC	F
24-Feb-20	N030-50066-0470	11511	360	PETRO-CAN	DURON HP	10W-30	Y	Y	13.7	96.3	144	8	16	19	7	N		N
26-Nov-19	N030-49337-0417	11151	577	PETRO-CAN	DURON HP	15W-40	Y	Y	13.3	101.7	129	10	17	20	8	N		N
23-Aug-19	N030-49254-0618	10574	311	PETRO-CAN	DURON HP	15W-40	Y	Y	14.3	106.6	137	2	15	19	7	N	0	N
05-Jun-19	N030-49165-0262	10263	322	PETRO-CAN	DURON SHP	15W-40	Y	Y	14.4	105.0	141	13	15	19	6	N		N

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	W
24-Feb-20	N030-50066-0470	Y	Y	N
26-Nov-19	N030-49337-0417	Y	Y	N
23-Aug-19	N030-49254-0618	Y	Y	N
05-Jun-19	N030-49165-0262	Y	Y	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

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LD624 GRAPPLE ROTARY MOTORS



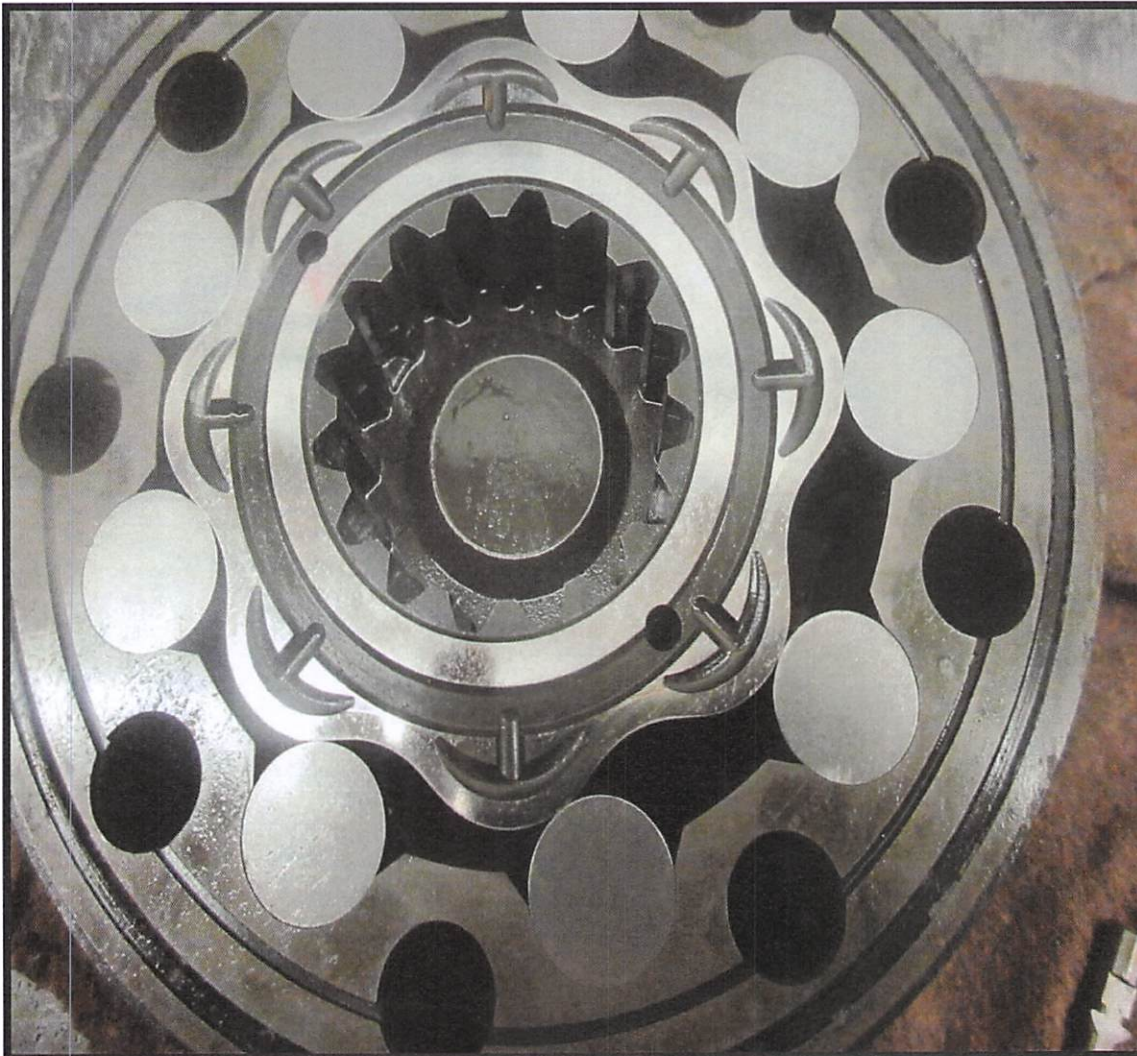
NORCAN FLUID POWER LTD

1867 Versatile Dr.
Kamloops B.C.
V1S-1C5
Ph: 250-372-3933
Fax: 250-374-9555

REPAIR QUOTATION FOR REPAIR (1) EA. EATON MOTOR

DATE: March 24, 2022
CUSTOMER: GALENA CONTRACTING
PO/REQ#: ADVISE
PART #: 157-0082-005
STOCK#:
NORCAN W/O#: W0131422

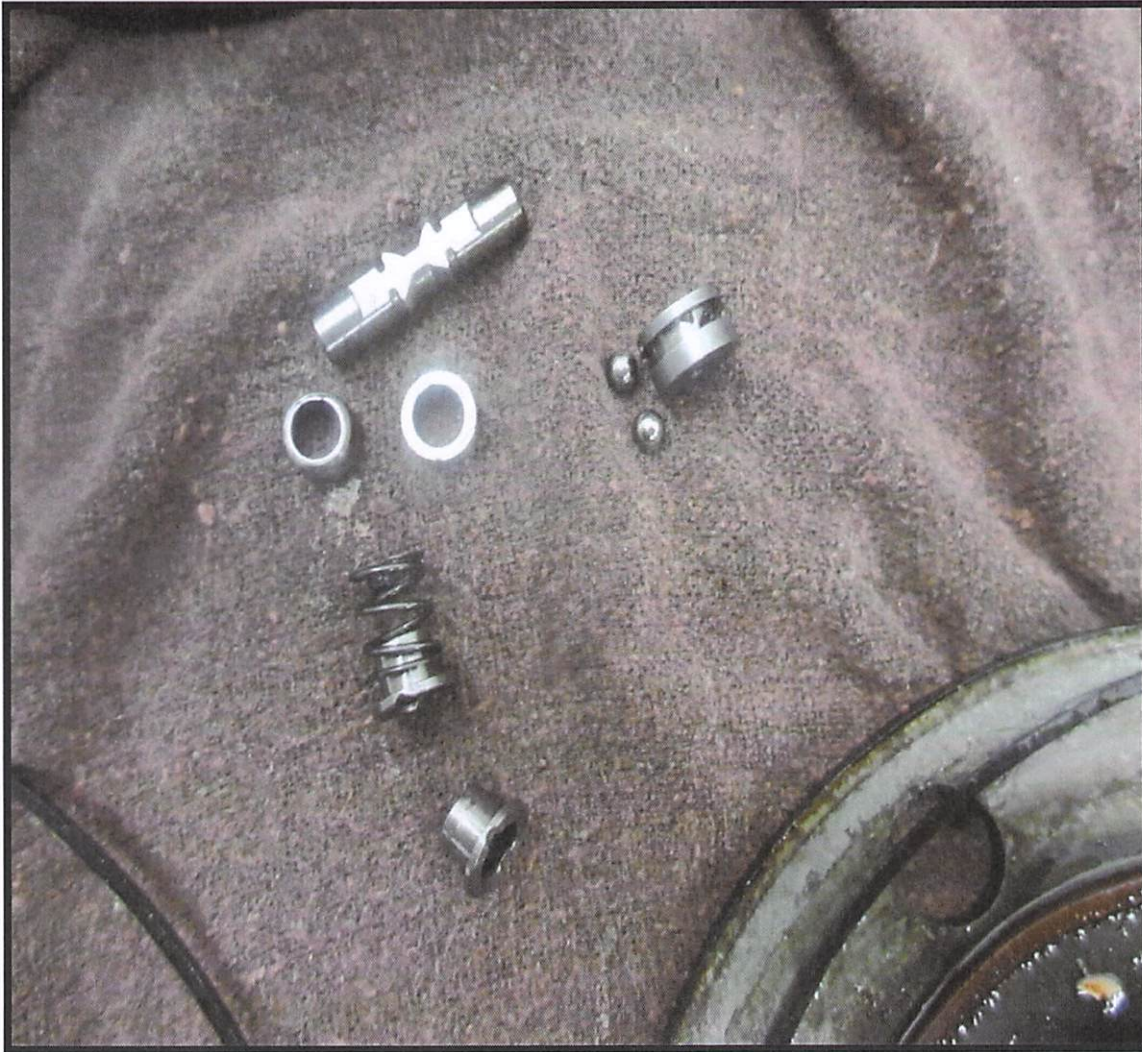
DISMANTLE AND INSPECTION: The isolation seal and plug seals are blown. The shuttle checks and guides are worn. The geroler has normal wear. The seals are worn and deteriorating.



Geroler

The geroler has normal wear.

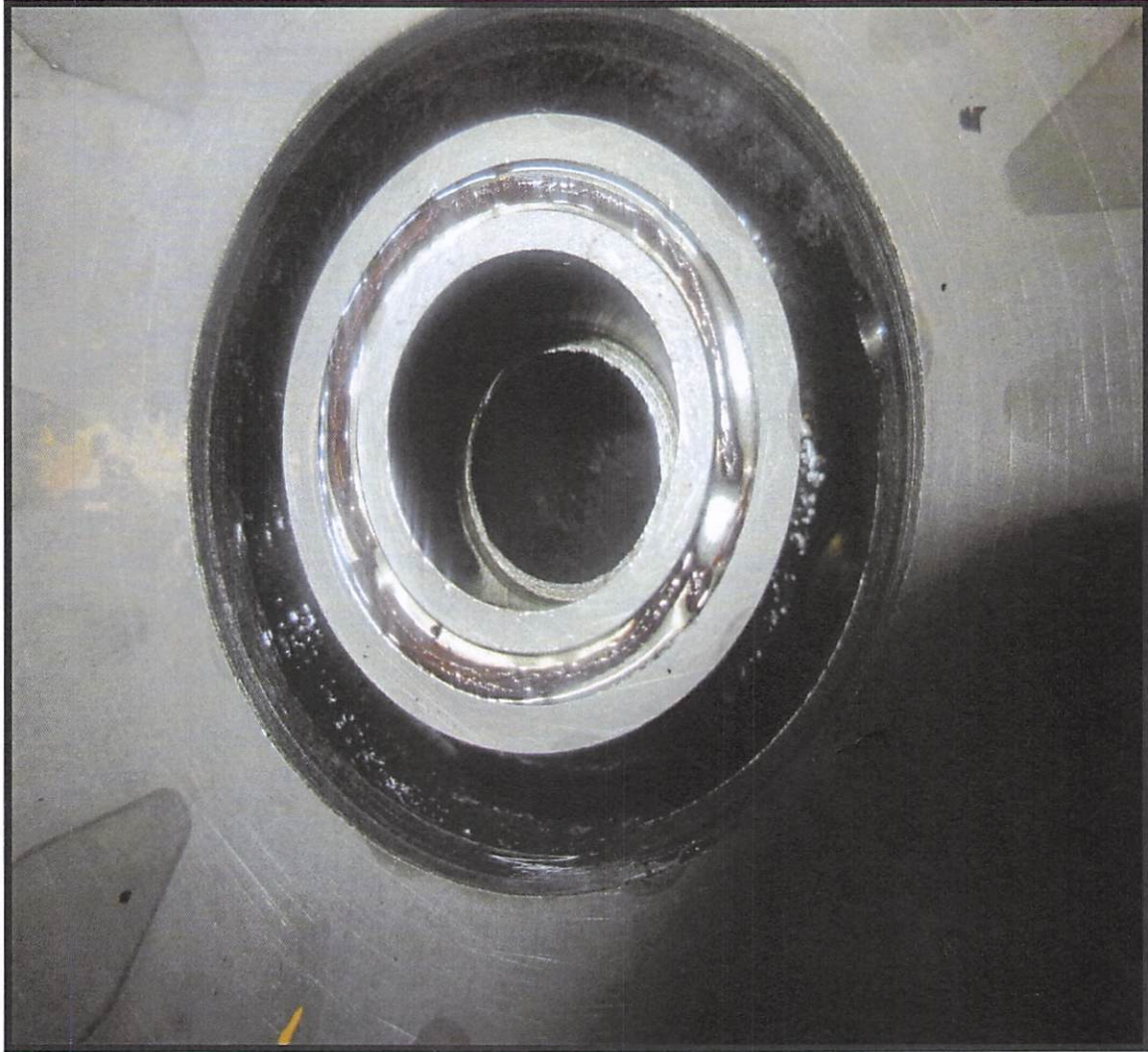
Requires lap and polishing.



Guides and Poppets

The checks and poppets are worn.

Replacement is required.



Isolation Seal

The isolation seal has blown.

Replacement is required.

REPAIRS REQUIRED: Lap and polish the running and sealing surfaces. Assemble, installing new poppets, guides and seals. Test and paint.

QTY	DESCRIPTION	EXTENSION
1 EA	SEAL KIT	
1 EA	POPPETS	
1 EA	GUIDES	
6 HR	LABOUR (\$135.00 PER HOUR)	
1 EA	ENVIRONMENTAL LEVY	
1 EA	FREIGHT	
1 EA	SHOP SUPPLIES	
TOTAL		\$1,324.91

(TAXES EXTRA)

REPAIR COMPLETION: 5-7 Business Days ARO

COST OF NEW: \$4,686.64 (TAXES EXTRA) *we bought from BRANDER FUND \$200*

DELIVERY: TBA

FOB KAMLOOPS

Please do not hesitate to contact us with any questions or concerns.

Regards,

Tyol Wongs

Service Writer

tyolw@norcanfp.com

Phone: (250)372-3933

LD 624 GRAPPLE ROTATE MOTORS.



NORCAN FLUID POWER LTD

1867 Versatile Dr.
Kamloops B.C.
V1S-1C5
Ph: 250-372-3933
Fax: 250-374-9555

REPAIR QUOTATION FOR REPAIR (1) EA. EATON MOTOR

DATE: March 24, 2022
CUSTOMER: GALENA CONTRACTING
PO/REQ#: ADVISE
PART #: 157-0082-005
STOCK#: 22267
NORCAN W/O#: W0131423

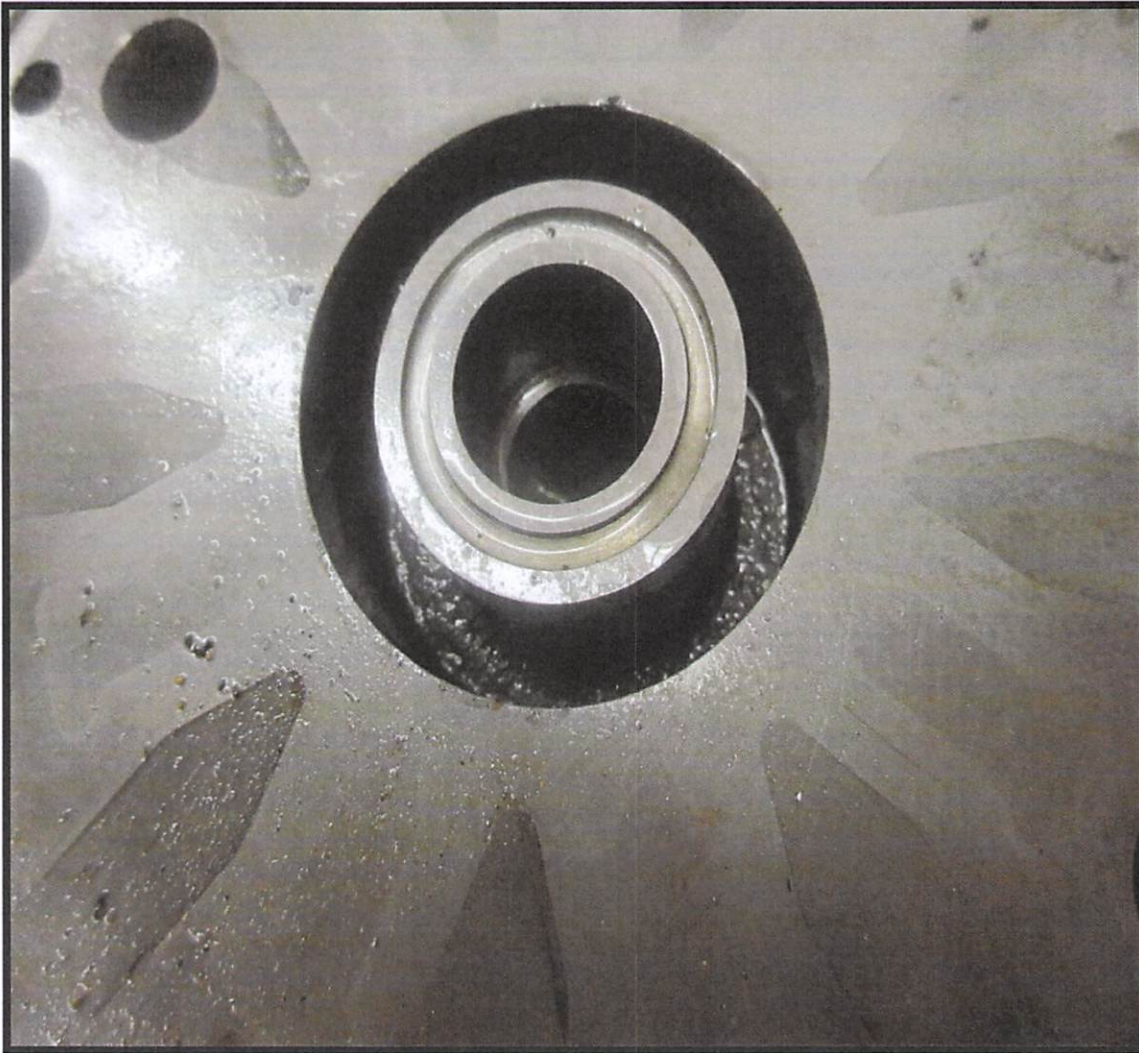
DISMANTLE AND INSPECTION: The motor has normal wear. The isolation seals and plug seals have blown. The shuttle checks and guides are worn. The seals are worn and deteriorating.



Shuttle
checks and
guides

The shuttle checks and
guides are worn.

Replacement is
required.



Isolation Seal

The isolation seal has blown.

Replacement is required.



Geroler

The geroler has normal wear.

Requires lap and polish.

REPAIRS REQUIRED: Lap and polish the running and sealing surfaces. Assemble, installing new shuttle checks, guides and seals. Test and paint.

QTY	DESCRIPTION	EXTENSION
1 EA	SEAL KIT	
1 EA	CHECK POPPETS	
1 EA	GUIDES	
6 HR	LABOUR (\$135.00 PER HOUR)	
1 EA	ENVIRONMENTAL LEVY	
1 EA	FREIGHT	
1 EA	SHOP SUPPLIES	
TOTAL		\$1,324.91

(TAXES EXTRA)

REPAIR COMPLETION: 5-7 Business Days ARO

COST OF NEW: \$4,686.64 (TAXES EXTRA) *we bought from blonett \$320.00 each motor.*

DELIVERY: TBA

FOB KAMLOOPS

Please do not hesitate to contact us with any questions or concerns.

Regards,

Tyol Wongs

Service Writer

tyolw@norcanfp.com

Phone: (250)372-3933