

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 097459-1216 - Transmission (Manual)

Sample No: LH0250292

Oil Type: PETRO CANADA DURON HP 15W40



J.D. Irving
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 Truro, NS
 CA B2N 5C5
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 F:



SAMPLE INFORMATION

Sample Number	LH0250292	LH0238567	LH0194733	LH0194636
Sample Date	31 May 2023	24 Oct 2022	29 Oct 2021	25 Jul 2021
Machine Hours	26834	1000	20093	18995
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	Changed	N/A
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL



OIL CONDITION

Visc @ 40°C	cSt	72.5	72.1	74.7	72.0
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CONTAMINATION

Silicon	ppm	4	5	4	6
Sodium	ppm	1	1	2	2
Potassium	ppm	0	0	<1	<1



WEAR METALS

Iron	ppm	22	28	21	16
Copper	ppm	7	12	10	6
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	2	2	2	2
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	61	59	50	56
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	1	2	1	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1107	1073	877	1003
Magnesium	ppm	982	940	831	925
Zinc	ppm	1202	1157	1023	1125
Phosphorus	ppm	1208	1197	1280	1209
Barium	ppm	0	0	0	0
Boron	ppm	20	30	89	39

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the fluid is acceptable for the time in service.

Depot: JDITRU
Unique No: 5590862
Signed: Kevin Marson
Report Date: 07 Jun 2023

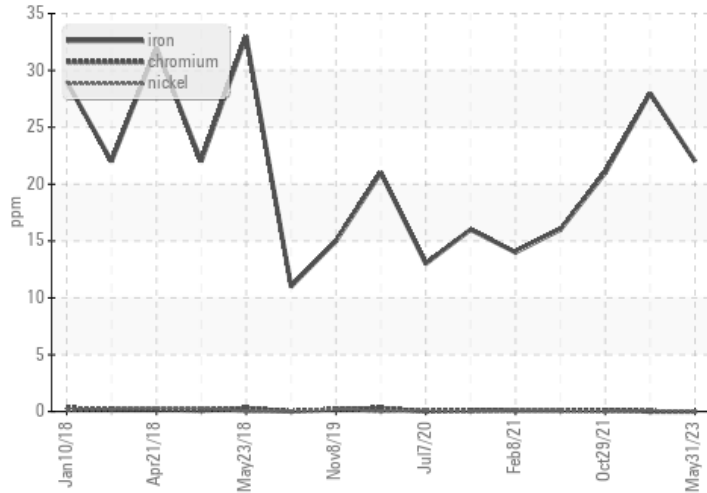
LIEBHERR

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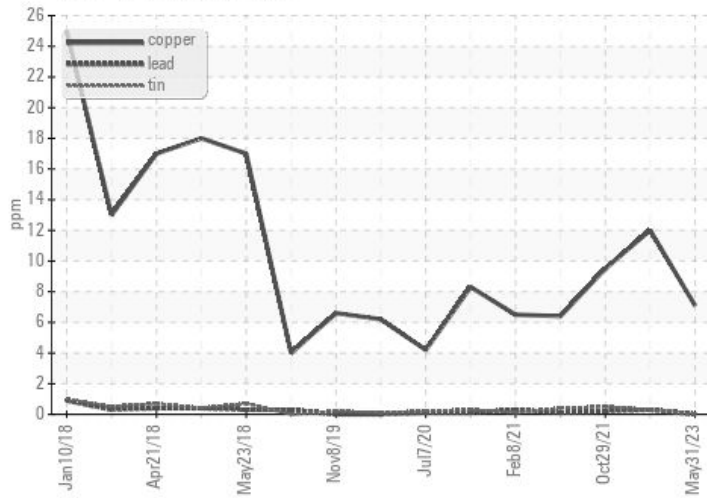


GRAPHS

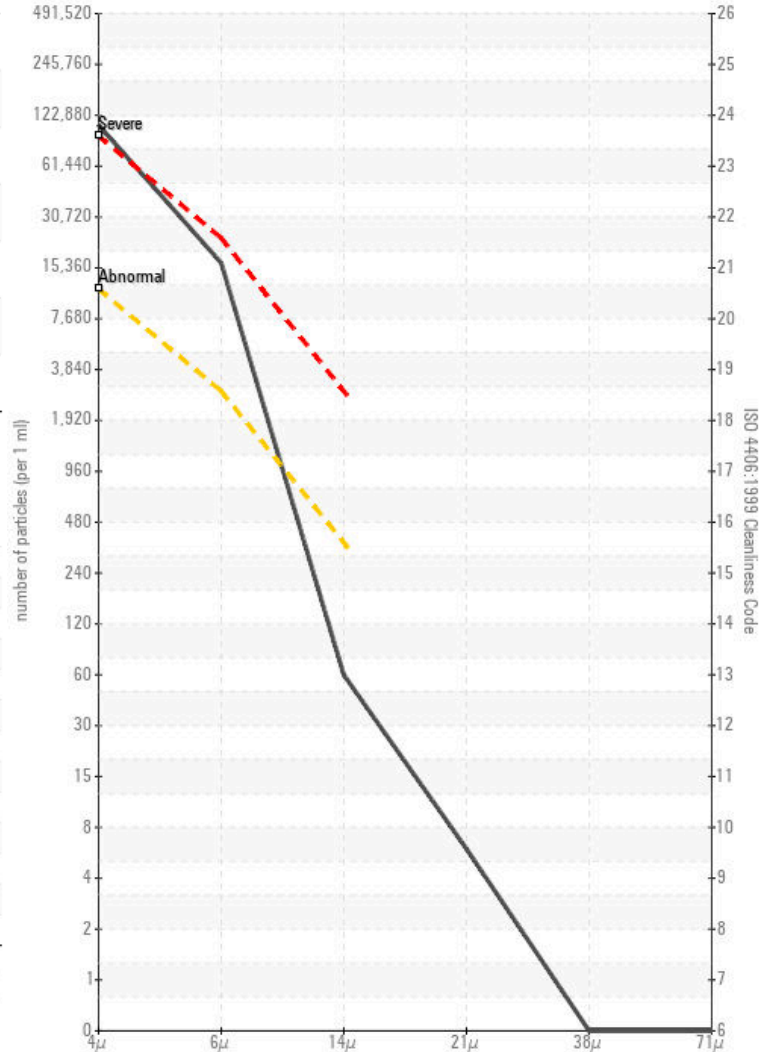
Ferrous Alloys



Non-ferrous Metals



Particle Count



● Viscosity @ 40°C

