

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 097459-1216 - Swing Drive

Sample No: LH0277101

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



J.D. Irving

Truro Sawmill, 529 Valley Dale Road
Truro, NS
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SAMPLE INFORMATION

Sample Number	LH0277101	LH0250295	LH0238561	LH0194735
Sample Date	13 Oct 2023	31 May 2023	24 Oct 2022	29 Oct 2021
Machine Hours	28718	26834	1000	20093
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	ABNORMAL



OIL CONDITION

Visc @ 40°C	cSt	109	95.6	103	101
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CONTAMINATION

Water	%	0.233	---	---	---
Silicon	ppm	7	5	2	5
Sodium	ppm	<1	1	3	<1
Potassium	ppm	<1	<1	0	1



WEAR METALS

PQ		13	---	---	0
Iron	ppm	2401	1079	237	1396
Copper	ppm	86	62	14	81
Lead	ppm	3	2	<1	5
Tin	ppm	7	5	1	2
Aluminum	ppm	1	<1	<1	<1
Chromium	ppm	22	10	3	15
Molybdenum	ppm	1	5	<1	<1
Nickel	ppm	2	2	<1	2
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	<1
Manganese	ppm	20	8	2	12
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	23	62	20	13
Magnesium	ppm	12	57	8	4
Zinc	ppm	90	103	24	26
Phosphorus	ppm	1249	1265	1900	1254
Barium	ppm	0	0	0	0
Boron	ppm	243	188	244	175

Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Chromium and iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is a moderate concentration of water present in the oil. Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: JDITRU
Unique No: 5668219
Signed: Kevin Marson
Report Date: 25 Oct 2023

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GRAPHS

