

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 110456-1216 - Swing Drive

Sample No: LH0277118

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



J.D. Irving

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SAMPLE INFORMATION

Sample Number	LH0277118	LH0234612	LH0246696	LH0230480
Sample Date	13 Oct 2023	01 Apr 2023	15 Dec 2022	25 Apr 2022
Machine Hours	17581	16012	0	13977
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	105	104	105	105



CONTAMINATION

Element	ppm	8	4	2	3
Silicon	ppm	8	4	2	3
Sodium	ppm	1	<1	3	0
Potassium	ppm	2	<1	<1	0



WEAR METALS

Element	ppm	0	---	---	---
PQ		0	---	---	---
Iron	ppm	1308	615	4	412
Copper	ppm	198	111	2	40
Lead	ppm	6	4	0	2
Tin	ppm	14	7	0	<1
Aluminum	ppm	2	1	<1	<1
Chromium	ppm	10	4	0	5
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	1	1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	3
Manganese	ppm	9	5	0	4
Vanadium	ppm	0	0	0	0



ADDITIVES

Element	ppm	15	10	15	9
Calcium	ppm	15	10	15	9
Magnesium	ppm	1	2	5	1
Zinc	ppm	24	19	19	13
Phosphorus	ppm	1146	1277	1302	1190
Barium	ppm	2	<1	0	0
Boron	ppm	114	108	315	187

Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. 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. Free water present. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: JDITRU
Unique No: 5668196
Signed: Kevin Marson
Report Date: 24 Oct 2023

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GRAPHS

