

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 097459-1216 - Swing Drive

Sample No: LH0194735

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



SAMPLE INFORMATION

Sample Number	LH0194735	LH0194635	LH0183465	LH0180236
Sample Date	29 Oct 2021	25 Jul 2021	08 Feb 2021	06 Oct 2020
Machine Hours	20093	18995	8850	0
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	ABNORMAL	NORMAL	ABNORMAL	ABNORMAL

J.D. Irving

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OIL CONDITION

Visc @ 40°C	cSt	101	96.6	99.8	102



CONTAMINATION

Element	ppm	5	4	5	5
Silicon	ppm	5	4	5	5
Sodium	ppm	<1	2	3	<1
Potassium	ppm	1	<1	2	<1



WEAR METALS

PQ		0	---	0	8
Iron	ppm	1396	11	1045	1265
Copper	ppm	81	1	80	176
Lead	ppm	5	<1	2	5
Tin	ppm	2	0	1	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	15	0	11	12
Molybdenum	ppm	<1	4	1	<1
Nickel	ppm	2	<1	2	1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	<1	<1
Manganese	ppm	12	<1	8	10
Vanadium	ppm	<1	0	<1	<1



ADDITIVES

Calcium	ppm	13	75	14	8
Magnesium	ppm	4	69	<1	2
Zinc	ppm	26	115	21	22
Phosphorus	ppm	1254	1249	1118	1166
Barium	ppm	0	<1	0	0
Boron	ppm	175	231	214	128

Diagnosis

The oil change at the time of sampling has been noted. 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 no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: JDITRU
Unique No: 5305019
Signed: Kevin Marson
Report Date: 03 Nov 2021

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GRAPHS

