

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 097459-1216 - Swing Drive

Sample No: LH0183465

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



SAMPLE INFORMATION

Sample Number	LH0183465	LH0180236	LH	LH0139133
Sample Date	08 Feb 2021	06 Oct 2020	07 Jul 2020	01 Mar 2020
Machine Hours	8850	0	0	13987
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL

J.D. Irving

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OIL CONDITION

Visc @ 40°C	cSt	99.8	102	98.5	96.6
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CONTAMINATION

Silicon	ppm	5	5	3	3
Sodium	ppm	3	<1	<1	0
Potassium	ppm	2	<1	1	<1



WEAR METALS

PQ		0	8	---	---
Iron	ppm	1045	1265	927	397
Copper	ppm	80	176	166	80
Lead	ppm	2	5	5	2
Tin	ppm	1	<1	<1	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	11	12	6	3
Molybdenum	ppm	1	<1	<1	<1
Nickel	ppm	2	1	1	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	<1	<1	3	<1
Manganese	ppm	8	10	7	3
Vanadium	ppm	<1	<1	<1	0



ADDITIVES

Calcium	ppm	14	8	7	14
Magnesium	ppm	<1	2	3	3
Zinc	ppm	21	22	21	19
Phosphorus	ppm	1118	1166	1163	1197
Barium	ppm	0	0	0	0
Boron	ppm	214	128	209	250

Diagnosis

We recommend that you drain the oil from the component if this has not already been done. 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: 5174445
Signed: Kevin Marson
Report Date: 10 Feb 2021



GRAPHS

