

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 097459-1216 - Diesel Engine

Sample No: LH0180426

Oil Type: PETRO CANADA DURON UHP 5W30



J.D. Irving

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Truro, NS
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SAMPLE INFORMATION

Sample Number	LH0180426	LH0183457	LH0180449	LH0180230
Sample Date	17 Mar 2021	08 Feb 2021	08 Dec 2020	06 Oct 2020
Machine Hours	0	8850	16540	0
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	10.7	11.4	11.3	11.4
Oxidation (PA)	%	78	79	87	88



CONTAMINATION

Water	%	0.335	---	---	---
Soot %	%	0	0	0	0
Nitration (PA)	%	84	80	88	88
Sulfation (PA)	%	57	57	61	61
Glycol	%	0.0	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	6	7	7
Sodium	ppm	4	4	5	4
Potassium	ppm	0	<1	<1	<1



WEAR METALS

Iron	ppm	4	3	4	5
Copper	ppm	<1	<1	<1	1
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	1	1	2	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	55	59	60	59
Nickel	ppm	<1	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	797	865	897	912
Magnesium	ppm	1106	1143	1161	1147
Zinc	ppm	1236	1331	1359	1316
Phosphorus	ppm	997	1066	1074	1054
Barium	ppm	<1	0	<1	<1
Boron	ppm	31	30	21	20

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. All component wear rates are normal. There is a light concentration of water present in the oil. Test for glycol is negative. The oil is no longer serviceable due to the presence of contaminants.

Depot: JDITRU
Unique No: 5189400
Signed: Kevin Marson
Report Date: 18 Mar 2021



GRAPHS

