

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 097459-1216 - Diesel Engine

Sample No: LH0183457

Oil Type: PETRO CANADA DURON UHP 5W30



**J.D. Irving**  
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 CA B2N 5C5  
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#### SAMPLE INFORMATION

Sample Number	LH0183457	LH0180449	LH0180230	LH0175315
Sample Date	08 Feb 2021	08 Dec 2020	06 Oct 2020	20 Jul 2020
Machine Hours	8850	16540	0	5545
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 100°C	cSt	11.4	11.3	11.4	11.1
Oxidation (PA)	%	79	87	88	81



#### CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	80	88	88	78
Sulfation (PA)	%	57	61	61	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	7	7	6
Sodium	ppm	4	5	4	<1
Potassium	ppm	<1	<1	<1	2



#### WEAR METALS

Iron	ppm	3	4	5	3
Copper	ppm	<1	<1	1	<1
Lead	ppm	<1	<1	<1	0
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	1	2	1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	59	60	59	48
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	865	897	912	1229
Magnesium	ppm	1143	1161	1147	991
Zinc	ppm	1331	1359	1316	941
Phosphorus	ppm	1066	1074	1054	832
Barium	ppm	0	<1	<1	0
Boron	ppm	30	21	20	71

#### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: JDITRU  
 Unique No: 5174183  
 Signed: Wes Davis  
 Report Date: 09 Feb 2021



### GRAPHS

