

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 097459-1216 - Diesel Engine

Sample No: LH0260016

Oil Type: PETRO CANADA DURON UHP 5W30



**J.D. Irving**  
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#### SAMPLE INFORMATION

Sample Number	LH0260016	LH0250296	LH0234620	LH0250186
Sample Date	21 Aug 2023	31 May 2023	14 Mar 2023	11 Jan 2023
Machine Hours	27281	26834	25721	24879
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 100°C	cSt	11.3	11.9	11.6	11.6
Oxidation (PA)	%	112	98	93	86



#### CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	113	97	88	89
Sulfation (PA)	%	75	65	69	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	11	6	8	6
Sodium	ppm	6	5	15	5
Potassium	ppm	2	<1	1	<1



#### WEAR METALS

Iron	ppm	10	5	4	3
Copper	ppm	2	1	<1	<1
Lead	ppm	1	<1	0	0
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	2	2	2	2
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	63	57	63	59
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	940	1146	913	877
Magnesium	ppm	1139	1002	1151	1119
Zinc	ppm	1259	1271	1271	1246
Phosphorus	ppm	1095	1114	1118	1099
Barium	ppm	<1	0	0	0
Boron	ppm	12	23	27	25

#### 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: 5632709  
 Signed: Kevin Marson  
 Report Date: 01 Sep 2023



### GRAPHS

