

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 097459-1216 - Diesel Engine

Sample No: LH0277085

Oil Type: PETRO CANADA DURON UHP 5W30



**J.D. Irving**  
 Truro Sawmill, 529 Valley Dale Road  
 Truro, NS  
 CA B2N 5C5  
 Contact: Sheldon Richardson  
 richardson.sheldon@jdirving.com  
 T: (902)890-9419  
 F:



#### SAMPLE INFORMATION

Sample Number	LH0277085	LH0277110	LH0260016	LH0250296
Sample Date	18 Mar 2024	13 Oct 2023	21 Aug 2023	31 May 2023
Machine Hours	29682	28718	27281	26834
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

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



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	93	95	113	97
Sulfation (PA)	%	63	65	75	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	8	11	6
Sodium	ppm	5	5	6	5
Potassium	ppm	<1	0	2	<1



#### WEAR METALS

Iron	ppm	5	7	10	5
Copper	ppm	<1	2	2	1
Lead	ppm	<1	<1	1	<1
Tin	ppm	0	0	<1	0
Aluminum	ppm	1	2	2	2
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	59	56	63	57
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	0	<1	0
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	859	855	940	1146
Magnesium	ppm	1131	1119	1139	1002
Zinc	ppm	1225	1245	1259	1271
Phosphorus	ppm	1041	1043	1095	1114
Barium	ppm	0	<1	<1	0
Boron	ppm	24	18	12	23

#### 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: 5748128  
 Signed: Wes Davis  
 Report Date: 19 Mar 2024



### GRAPHS

