

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 097459-1216 - Diesel Engine

Sample No: LH0250296

Oil Type: PETRO CANADA DURON UHP 5W30



#### SAMPLE INFORMATION

Sample Number	LH0250296	LH0234620	LH0250186	LH0238563
Sample Date	31 May 2023	14 Mar 2023	11 Jan 2023	24 Oct 2022
Machine Hours	26834	25721	24879	23665
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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:



#### OIL CONDITION

Visc @ 100°C	cSt	11.9	11.6	11.6	12.5
Oxidation (PA)	%	98	93	86	78



#### CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	97	88	89	91
Sulfation (PA)	%	65	69	62	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	8	6	6
Sodium	ppm	5	15	5	3
Potassium	ppm	<1	1	<1	0

#### 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.



#### WEAR METALS

Iron	ppm	5	4	3	3
Copper	ppm	1	<1	<1	1
Lead	ppm	<1	0	0	<1
Tin	ppm	0	<1	<1	0
Aluminum	ppm	2	2	2	2
Chromium	ppm	0	0	0	0
Molybdenum	ppm	57	63	59	38
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	1146	913	877	1451
Magnesium	ppm	1002	1151	1119	712
Zinc	ppm	1271	1271	1246	1246
Phosphorus	ppm	1114	1118	1099	1119
Barium	ppm	0	0	0	0
Boron	ppm	23	27	25	25

Depot: JDITRU  
Unique No: 5590560  
Signed: Wes Davis  
Report Date: 05 Jun 2023



### GRAPHS

