

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 097459-1216 - Diesel Engine

Sample No: LH0180449

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	LH0180449	LH0180230	LH0175315	LH
Sample Date	08 Dec 2020	06 Oct 2020	20 Jul 2020	07 Jul 2020
Machine Hours	16540	0	5545	0
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	11.4	11.1	11.2
Oxidation (PA)	%	87	88	81	80



#### CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	88	88	78	93
Sulfation (PA)	%	61	61	53	73
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	7	6	6
Sodium	ppm	5	4	<1	3
Potassium	ppm	<1	<1	2	1



#### WEAR METALS

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



#### ADDITIVES

Calcium	ppm	897	912	1229	839
Magnesium	ppm	1161	1147	991	1168
Zinc	ppm	1359	1316	941	1280
Phosphorus	ppm	1074	1054	832	1067
Barium	ppm	<1	<1	0	0
Boron	ppm	21	20	71	27

#### 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: 5160565

Signed: Wes Davis

Report Date: 12 Jan 2021



### GRAPHS

