

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 118664-1216 - Diesel Engine

Sample No: LH0270619

Oil Type: PETRO CANADA SUPREME 5W30



#### SAMPLE INFORMATION

Sample Number	LH0270619	LH0257023	LH0251652	LH0247454
Sample Date	05 Jul 2023	12 Apr 2023	09 Feb 2023	13 Jan 2023
Machine Hours	10728	10117	9549	9244
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

#### RAM IRON AND METAL

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TORONTO, ON  
CA M3J 1Z5  
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#### OIL CONDITION

Visc @ 100°C	cSt	11.6	13.0	13.5	12.6
Oxidation (PA)	%	96	69	60	69



#### CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	91	78	58	75
Sulfation (PA)	%	64	61	56	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	6	6	6
Sodium	ppm	4	1	1	2
Potassium	ppm	0	0	0	<1

#### 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	3	2	3
Copper	ppm	2	<1	2	2
Lead	ppm	1	<1	<1	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	1	<1	1
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	53	61	58	59
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	981	1147	1116	1165
Magnesium	ppm	1029	999	950	954
Zinc	ppm	1193	1238	1177	1196
Phosphorus	ppm	1040	1088	1101	1049
Barium	ppm	0	0	0	0
Boron	ppm	24	3	5	6

Depot: RAMTOR  
Unique No: 5607622  
Signed: Wes Davis  
Report Date: 18 Jul 2023



### GRAPHS

