

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 112359-1216 - Diesel Engine

Sample No: LH0269699

Oil Type: PETRO CANADA SUPREME 5W30



**RICHMOND STEEL**  
12707 170 STREET  
EDMONTON, AB  
CA T5V 1L9  
Contact: Sandor Arguello

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F:

#### 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.



#### SAMPLE INFORMATION

Sample Number	LH0269699	LH0224996	LH0221787	LH0224907
Sample Date	03 Jan 2024	24 May 2023	02 Nov 2022	05 Jun 2022
Machine Hours	7308	6006	5107	11976
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 100°C	cSt	12.3	11.6	12.7	11.6
Oxidation (PA)	%	103	89	73	78



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	99	87	76	84
Sulfation (PA)	%	70	62	57	62
Glycol	%	0.0	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.9
Silicon	ppm	11	7	6	8
Sodium	ppm	4	4	2	4
Potassium	ppm	2	<1	<1	1



#### WEAR METALS

Iron	ppm	10	6	4	4
Copper	ppm	5	3	2	2
Lead	ppm	2	<1	2	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	3	2	2	2
Chromium	ppm	<1	0	0	<1
Molybdenum	ppm	53	60	57	59
Nickel	ppm	<1	<1	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	965	881	1010	835
Magnesium	ppm	998	1101	963	1175
Zinc	ppm	1190	1211	1178	1272
Phosphorus	ppm	970	1089	1060	1094
Barium	ppm	<1	0	0	<1
Boron	ppm	18	26	4	39

Depot: RICEDM  
Unique No: 5708001  
Signed: Kevin Marson  
Report Date: 09 Jan 2024



### GRAPHS

