

## LIEBHERR LH50 137429 - Diesel Engine

Sample No: LH0274497

Oil Type: DIESEL ENGINE OIL SAE 40

# **SAMPLE INFORMATION**

Sample Number		LH0274497	LH0251871	LH0251475	LH0247241		
Sample Date		20 Aug 2023	23 Feb 2023	16 Jan 2023	02 Dec 2022		
Machine Hours		6359	4360	3821	3290		
Oil Hours		0	0	0	0		
Oil Changed		Changed	Changed	Changed	Changed		
Sample Status		NORMAL	NORMAL	NORMAL	NORMAL		
Visc @ 100°C	cSt	0 12.6	0 13.1	13.0	0 12.7		
Oxidation (PA)	%	74	70	67	79		

Soot %	%	0	0	0	0	
Nitration (PA)	%	74	75	72	78	
Sulfation (PA)	%	59	59	55	60	
Glycol	%	NEG	NEG	NEG	NEG	
Fuel	%	<1.0	<1.0	<1.0	<1.0	
Silicon	ppm	06	0 9	07	6	
Sodium	ppm	0 2	0 1	2	2	
Potassium	ppm	<mark></mark> <1	○ <1	○ <1	○ <1	

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Iron	ppm	04	0 4	3	04
Copper	ppm	02	0 2	02	3
Lead	ppm	<b>○</b> <1	◯ <1	○ <1	0 1
Tin	ppm	<b>○</b> <1	○ <1	○ <1	◯ <1
Aluminum	ppm	<b>○</b> <1	01	0 1	0 1
Chromium	ppm	<b>○</b> <1	0	0	0
Molybdenum	ppm	0 60	58	59	59
Nickel	ppm	0 🔘	0	○ <1	0
Titanium	ppm	0 🔘	<1	<1	◯ <1
Silver	ppm	0 ()	0	0	0
Manganese	ppm	<b>○</b> <1	◯ <1	◯ <1	◯ <1
Vanadium	ppm	0	0	0	0



ADDITIVES						
Calcium	ppm	0 1082	0 1104	0 1143	0 1113	
Magnesium	ppm	0 1006	978	967	964	
Zinc	ppm	0 1226	0 1216	0 1219	0 1185	
Phosphorus	ppm	0 1098	○ 1101	0 1096	0 1083	
Barium	ppm	0	0	0	0	
Boron	ppm	0 2	0 1	6	0	





### CMI - COMBINED METAL INDUSTRIES

505 GARY RAY DRIVE NORTH YORK, ON CA M9L 1P9 Contact: Greg Sacher gsacher@combinedmetal.com T: (416)642-7262 F:

#### Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm. 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:COMUnique No:5630Signed:WestReport Date:21 A

COMWES 5630155 Wes Davis 21 Aug 2023





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