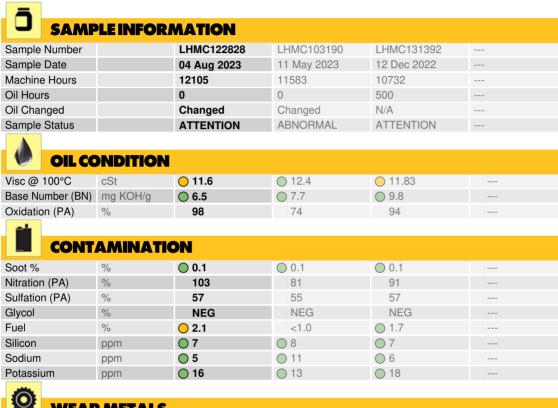
LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR LH40 ML13 - Diesel Engine

Sample No: LHMC122828

Oil Type: DIESEL ENGINE OIL SAE 15W40



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		Mag A		LIFBHERR	1
	kar.	all r	5	3B UMANAD OF	
F 188				T (III)	
			LY BL	Total Year	

OSCAR WINSKI CO. INC

2407 N. 9TH STREET LAFAYETTE, IN US 47904

Contact: PATRICK CHRISTOPHER christopherp@oscarwinski.com

T: (765)427-3691

F: x:

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity.

WEA	R METALS				
Iron	ppm	7	0 8	6	
Copper	ppm	34	156	6	
Lead	ppm	<1	3	1	
Tin	ppm	() <1	O <1	O <1	
Aluminum	ppm	1	0	O <1	
Chromium	ppm	0	0	O <1	
Molybdenum	ppm	9	5 3	4	
Nickel	ppm	0	0	O <1	
Titanium	ppm	() <1	O <1	O <1	
Silver	ppm	0	O <1	O <1	
Manganese	ppm	() <1	O <1	O <1	
Vanadium	ppm	<1	0	0	
-					

ADDITIVES								
Calcium	ppm	2197	1389	O 2352				
Magnesium	ppm	193	○ 867	O 158				
Zinc	ppm	844	O 1216	○ 864				
Phosphorus	ppm	703	O 950	O 768				
Barium	ppm	0	O 0	O 0				
Boron	ppm	1	0 8	O 11				
	PPIII	<u> </u>	0 3	<u> </u>				

Depot:OSCLAFUnique No:10615391Signed:Sean FeltonReport Date:23 Aug 2023

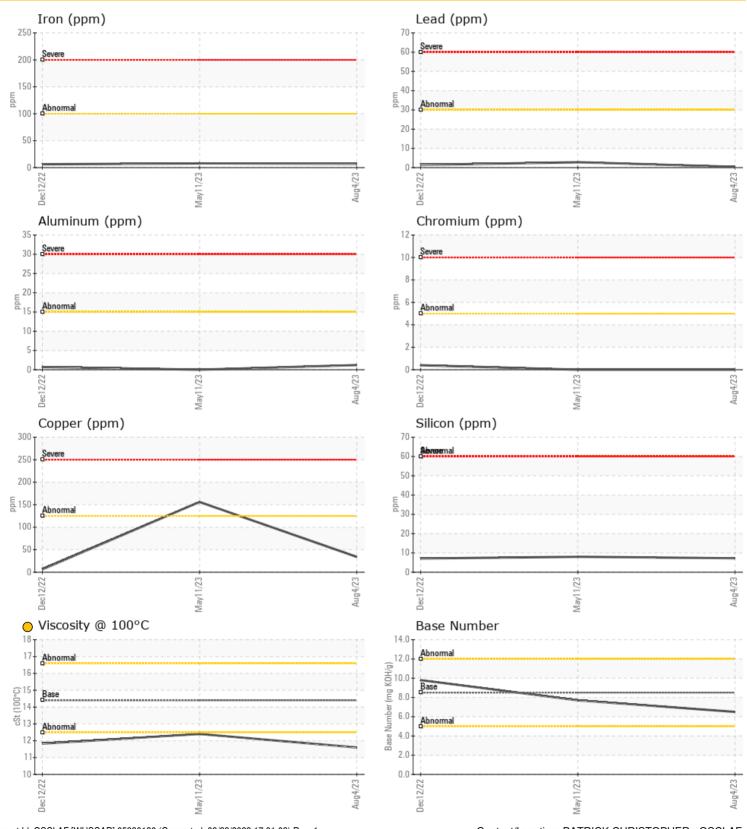
LIEBHERR

CONSTRUCTION EQUIPMENT





GRAPHS



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