

LIEBHERR L550 73916 - Diesel Engine

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Sample No: LH0277538

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

Sample Number	LH0277538	LH0277823	LH0270421	
Sample Date	21 Jan 2024	27 Nov 2023	17 Sep 2023	
Machine Hours	1515	1059	583	
Oil Hours	0	0	0	
Oil Changed	N/A	Changed	Changed	
Sample Status	NORMAL	NORMAL	NORMAL	
	TION			
Visc @ 100°C cSt	0 13.3	0 13.2	11.7	
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Oxidation	(PA)

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Water	%	NEG	NEG	NEG	
Soot %	%	0 🔘	0	0	
Nitration (PA)	%	58	60	98	
Sulfation (PA)	%	53	58	112	
Glycol	%	NEG	NEG	NEG	
Fuel	%	<1.0	<1.0	0 1.4	
Silicon	ppm	07	6	0 11	
Sodium	ppm	01	0 2	2	
Potassium	ppm	02	0	5	

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WEAR METALS

%

Iron	ppm	05	6	12	
Copper	ppm	08	0 41	258	
Lead	ppm	○ <1	2	0 10	
Tin	ppm	○ <1	○ <1	2	
Aluminum	ppm	0 2	0 1	3	
Chromium	ppm	○ <1	○ <1	○ <1	
Molybdenum	ppm	0 56	54	0 46	
Nickel	ppm	0 🔘	○ <1	○ <1	
Titanium	ppm	0	0	<1	
Silver	ppm	0 (○ <1	0	
Manganese	ppm	0	0	1	
Vanadium	ppm	0	0	0	

ADDITIVES					
Calcium	ppm	0 1105	0 1120	0 1375	
Magnesium	ppm	941	910	939	
Zinc	ppm	0 1160	0 1114	0 849	
Phosphorus	ppm	986	932	○ 718	
Barium	ppm	○ <1	0 4	33	
Boron	ppm	◯ 5	0 8	○ 75	





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Diagnosis

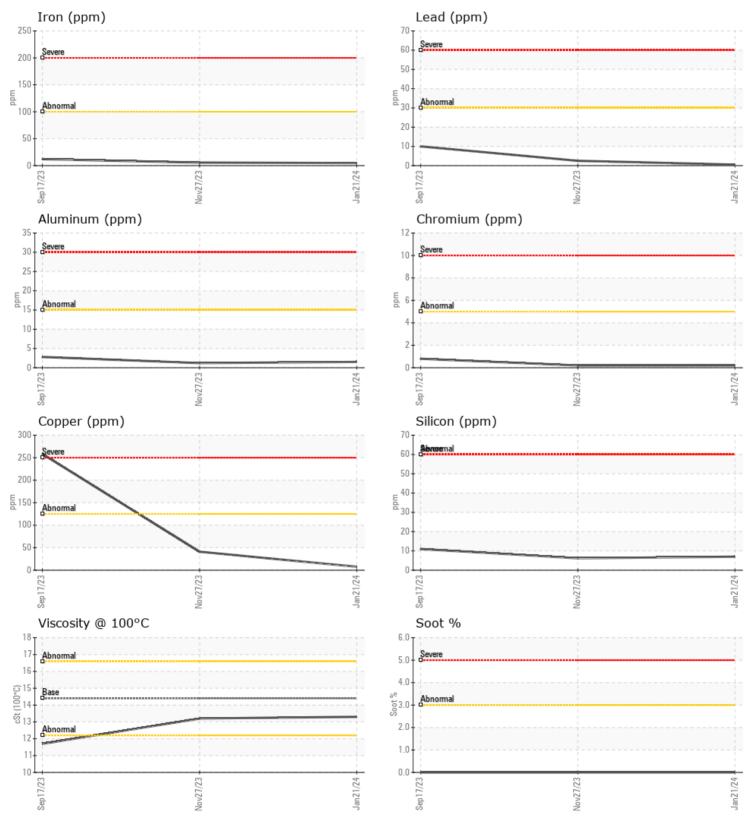
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.





GRAPHS

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Contact/Location: Steve Lehto - LIEMIS