

[(365657)] LIEBHERR L546 060943-1755 - Diesel Engine

Sample No: LH0221376

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	LH0221376	LH0221368	LH0221412	
Sample Date	05 Oct 2023	24 Oct 2022	30 Jan 2022	
Machine Hours	1467	1000	0	
Oil Hours	0	0	0	
Oil Changed	Changed	Changed	N/A	
Sample Status	MARGINAL	NORMAL	NORMAL	

OIL C	ONDIT	ION			
Visc @ 100°C	cSt	🔘 13.5	0 13.4	13.3	
Oxidation (PA)	%	86	70	62	
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Water	%	0.189			
Soot %	%	0.4	0	0	
Nitration (PA)	%	98	93	81	
Sulfation (PA)	%	73	65	58	
Glycol	%	0.0	NEG	NEG	
Fuel	%	<1.0	<1.0	<1.0	
Silicon	ppm	8 🔘	6	0 4	
Sodium	ppm	0 9	0 6	0 4	
Potassium	ppm	0 4	03	03	

\odot **WEAR METALS** 0 51 Iron ppm 29 0 17 Copper ppm 06 0 19 0 16 Lead ppm 03 <1 < 01 Tin ppm Aluminum 02 ppm $\bigcirc 2$ Chromium 01 ppm ○ <1 ○ <1 Molybdenum 07 0 15 0 15 ppm Nickel 03 02 02 ppm Titanium 0 0 <1 0 ppm Silver ○ <1 0 0 ppm Manganese ppm 0 <1 <1 1 Vanadium ppm 0 <

ADDITIVES					
Calcium	ppm	0 1444	0 1456	0 1350	
Magnesium	ppm	0 765	○ 752	○ 758	
Zinc	ppm	0 870	840	829	
Phosphorus	ppm	0 750	○ 783	748	
Barium	ppm	○ <1	0	0	
Boron	ppm	23	38	59	



NEUCRO 5659293 Kevin Marson 20 Oct 2023



NEUDORF FARMING C/O ESSO 920 RAILWAY STREET CROSSFIELD, AB

CA T0M 0S0 Contact: Service Manager

T: F:

Diagnosis

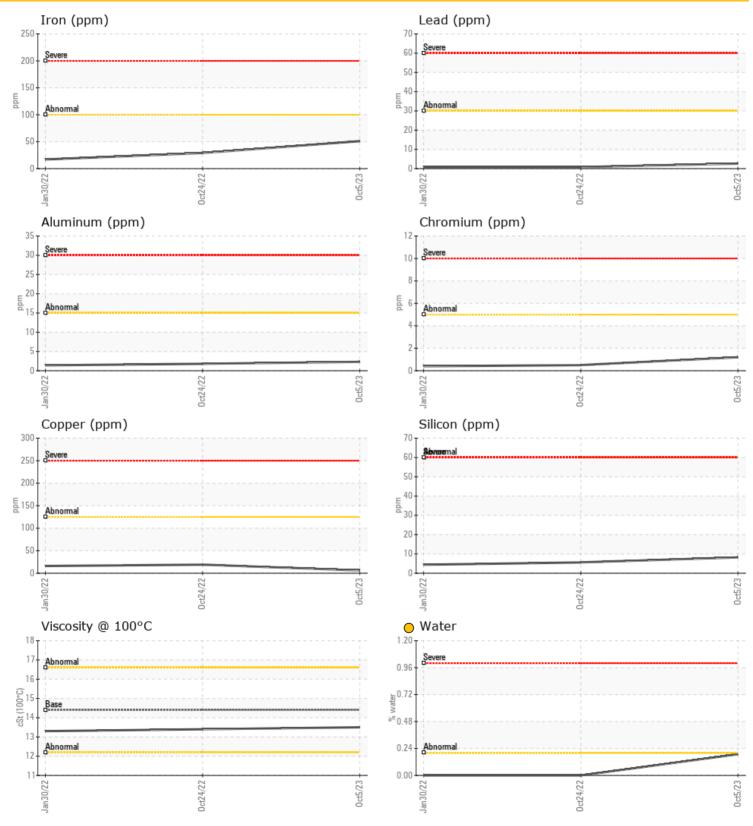
All component wear rates are normal. There is a trace of moisture present in the oil. Test for glycol is negative. The condition of the oil is acceptable for the time in service.





GRAPHS

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