

LIEBHERR LH30M 1253-117759 - Diesel Engine

Sample No: LH0210944

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Oil Type: LIEBHERR MOTOROIL 5W30

SAMPLE INFORMATION

Sample Number	LH0210944	LH0210925	LH0210902	
Sample Date	02 Feb 2024	29 Jul 2023	29 Jul 2023	
Machine Hours	7907	6250	5000	
Oil Hours	0	0	0	
Oil Changed	Changed	N/A	N/A	
Sample Status	NORMAL	ABNORMAL	NORMAL	

OIL CO	NDITION				
Visc @ 100°C	cSt	0 11.2	0 11.1	0 11.2	
Base Number (BN)	mg KOH/g	0 12.8	5.7	0 14.9	
Oxidation (PA)	%	52	180	43	
24 C					

Water	%	NEG	NEG	NEG	
Soot %	%	0.1	0.1	0.1	
Nitration (PA)	%	111	81	108	
Sulfation (PA)	%	47	99	41	
Glycol	%	NEG	NEG	NEG	
Fuel	%	<1.0	0.8	0 1.8	
Silicon	ppm	1 4	071	07	
Sodium	ppm	0 🔘	02	0 1	
Potassium	ppm	9	2	0 1	

WE/	AR META	LS			
Iron	ppm	0 18	◯ 13	07	
Copper	ppm	6	0 392	0 1	
Lead	ppm	0 🔘	0 4	◯ <1	
Tin	ppm	○ <1	01	◯ <1	
Aluminum	ppm	05	03	2	
Chromium	ppm	○ <1	○ <1	◯ <1	
Molybdenum	ppm	○ <1	33	◯ <1	
Nickel	ppm	0 (0	0	
Titanium	ppm	<1	<1	<1	
Silver	ppm	○ <1	0	0	
Manganese	ppm	0	2	<1	
Vanadium	ppm	0	<1	<1	

ADDITIVES						
Calcium	ppm	5980	0 1354	● 4317		
Magnesium	ppm	0 35	○ 751	21		
Zinc	ppm	0 1659	0 858	0 1243		
Phosphorus	ppm	0 1492	720	0 1015		
Barium	ppm	0 26	0 18	0		
Boron	ppm	360	0 118	269		





US 37086 Contact: KEN FISCHER

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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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

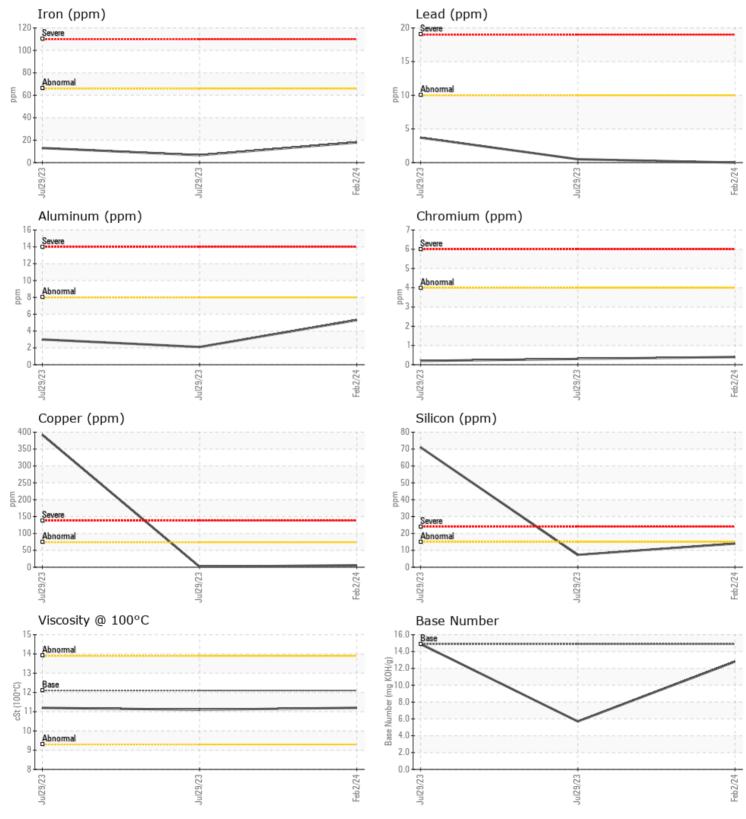






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