

## [(363347)] LIEBHERR R934 054150-1550 - Diesel Engine

Sample No: LH0218927

Oil Type: DIESEL ENGINE OIL SAE 30

### SAMPLE INFORMATION

Sample Number	LH0218927	LH0218919	 
Sample Date	13 Jul 2023	22 Sep 2022	 
Machine Hours	1040	468	 
Oil Hours	0	0	 
Oil Changed	Changed	N/A	 
Sample Status	NORMAL	NORMAL	 
Visc @ 100°C cSt	0 11.7	0 11.9	 

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Oxidation (PA) %

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CONTAMINATION					
Soot %	%	0	0		
Nitration (PA)	%	78	102		
Sulfation (PA)	%	65	110		
Glycol	%	NEG	NEG		
Fuel	%	<1.0	01		
Silicon	ppm	08	0 10		
Sodium	ppm	02	03		
Potassium	ppm	02	3		

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#### WEAR METALS

Iron	ppm	07	0 11	 
Copper	ppm	<b>0</b> 19	0 108	 
Lead	ppm	01	6	 
Tin	ppm	<b>○</b> <1	01	 
Aluminum	ppm	0 2	3	 
Chromium	ppm	<b>○</b> <1	○ <1	 
Molybdenum	ppm	0 16	0 42	 
Nickel	ppm	<b>○</b> <1	0 0	 
Titanium	ppm	<b>36</b>	<1	 
Silver	ppm	0 ()	0	 
Manganese	ppm	<b>○</b> <1	1	 
Vanadium	ppm	<1	0	 

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	VIIIVES				
Calcium	ppm	0 1873	0 1385	 	
Magnesium	ppm	0 342	909	 	
Zinc	ppm	0 1089	848	 	
Phosphorus	ppm	<b>960</b>	748	 	
Barium	ppm	04	0 30	 	
Boron	ppm	0 34	83	 	





#### **KARSON SAND & GRAVEL INC**

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#### 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 30. 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.

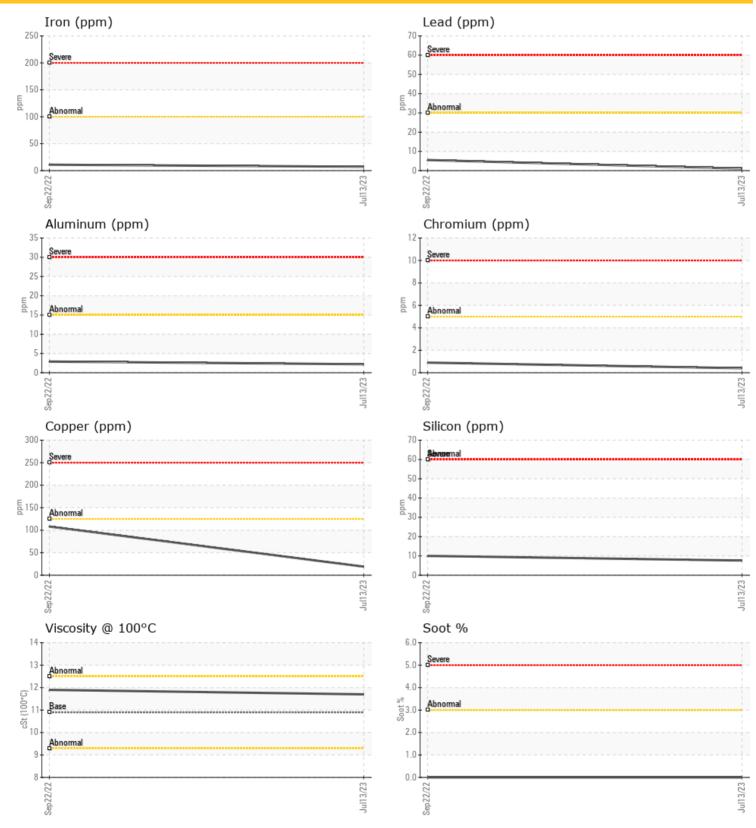
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