

[(375856)] LIEBHERR R930 049712-1716 - Diesel Engine

Sample No: LH0231970

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number		LH0231970	LH0231964			
Sample Date		13 Jul 2023	22 Sep 2022			
Machine Hours		1520	1000			
Oil Hours		0	0			
Oil Changed		Changed	Changed			
Sample Status		NORMAL	NORMAL			
OIL CONDITION						
Visc @ 100°C	cSt	12.1	11.7			

153

Oxidation (PA)

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Soot %	%	0	0		
Nitration (PA)	%	83	77		
Sulfation (PA)	%	90	61		
Glycol	%	NEG	NEG		
Fuel	%	0 1.2	0 1.1		
Silicon	ppm	0 11	08		
Sodium	ppm	03	5		
Potassium	ppm	○ <1	○ <1		

84

WEAR METALS

%

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Iron	ppm	04	6	
Copper	ppm	0 14	0 40	
Lead	ppm	○ <1	0 1	
Tin	ppm	○ <1	○ <1	
Aluminum	ppm	03	2	
Chromium	ppm	○ <1	○ <1	
Molybdenum	ppm	0 100	57	
Nickel	ppm	0	0	
Titanium	ppm	0	<1	
Silver	ppm	0	0	
Manganese	ppm	○ <1	<1	
Vanadium	ppm	0	0	

Calcium	ppm	0 2029	876		
Magnesium	ppm	0 135	0 1119		
Zinc	ppm	0 1126	0 1177		
Phosphorus	ppm	0 1028	0 1049		
Barium	ppm	○ <1	0 1		
Boron	ppm	88	0 45		





COUNTY OF ST. PAUL NO. 19

5015 - 49 AVENUE ST. PAUL, AB CA T0A 3A4 Contact: Brent Lilje blilje@county.stpaul.ab.ca T: (780)645-3006 F:

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

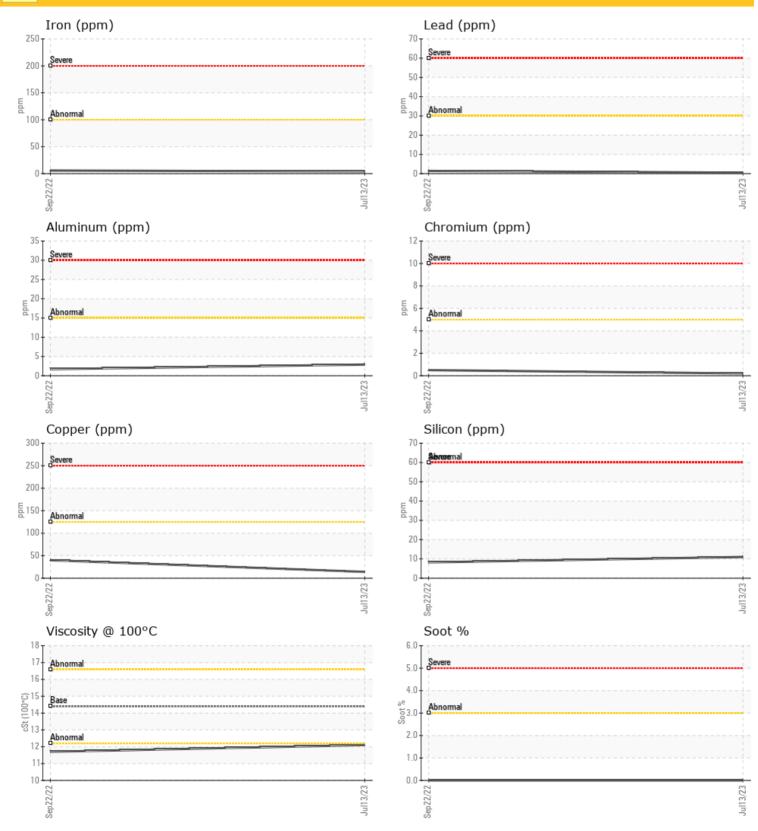
Depot: Unique No: Signed: Report Date: COU501STP 5616157 Kevin Marson 21 Jul 2023





GRAPHS

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