

LIEBHERR A944 079419 - Diesel Engine

5.9

76

Sample No: LH0292284

Oil Type: {unknown}

Sample Information

Sample Number	LH0292284	 	
Sample Date	11 Jul 2024	 	
Machine Hours	16752	 	
Oil Hours	0	 	
Oil Changed	N/A	 	
Sample Status	SEVERE	 	

Visc @ 100°C

Oil Condition

%

Oxidation (PA)

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Conte	amination			
Water	%	NEG	 	
Soot %	%	0.2	 	
Nitration (PA)	%	101	 	
Sulfation (PA)	%	23	 	
Glycol	%	> .70	 	
Fuel	%	33.7	 	
Silicon	ppm	9	 	
Sodium	ppm	<mark>)</mark> 231	 	
Potassium	ppm	2	 	

Wear Metals

Iron	ppm	08	 	
Copper	ppm	9	 	
Lead	ppm	01	 	
Tin	ppm	0 🔘	 	
Aluminum	ppm	02	 	
Chromium	ppm	<mark></mark> <1	 	
Molybdenum	ppm	0 12	 	
Nickel	ppm	<mark></mark> <1	 	
Titanium	ppm	0	 	
Silver	ppm	0 🔘	 	
Manganese	ppm	<1	 	
Vanadium	ppm	0	 	

0

Adc	litives			
Calcium	ppm	0 1051	 	
Magnesium	ppm	0 5	 	
Zinc	ppm	739	 	
Phosphorus	ppm	518	 	
Barium	ppm	○ <1	 	
Boron	ppm	3 4	 	





Richmond, BC CA V6W 1J8 Contact: Kevin Steer kevin.steer@liebherr.com T:

F: (604)270-3254

Diagnosis

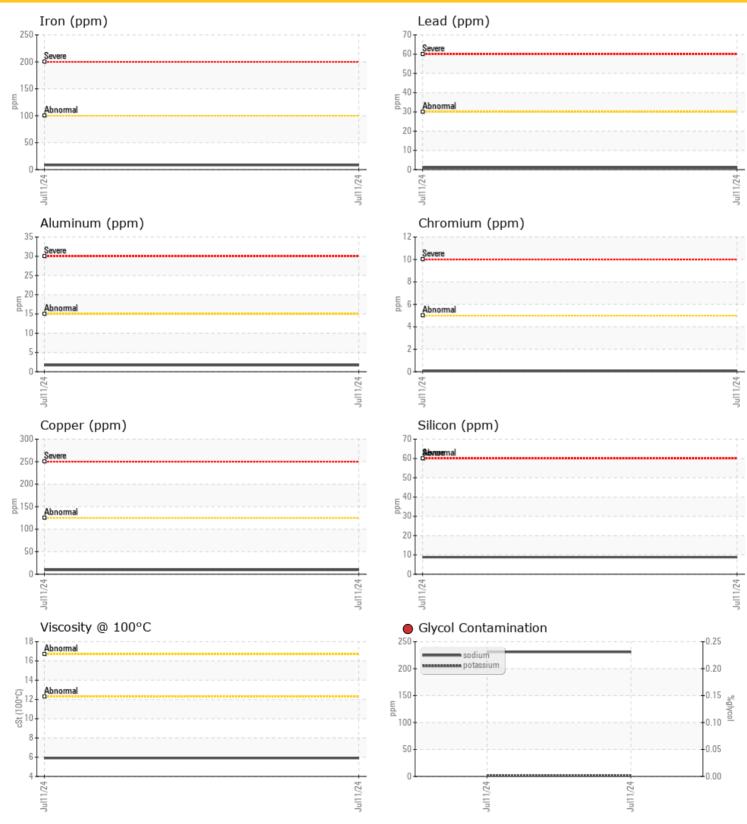
We advise that you check the fuel injection system. We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. Test for glycol is positive. There is a high amount of fuel present in the oil. There is a high concentration of glycol present in the oil. There is a moderate concentration of water present in the oil. Tests confirm the presence of fuel in the oil. The oil is no longer serviceable due to the presence of contaminants.

LEBHERR CONSTRUCTION EQUIPMENT



Graphs

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Submitted By: Olivier Galimi Page 2 of 2