# CONSTRUCTION EQUIPMENT

## LIEBHERR LH18M 133780-1840 - Diesel Engine

PETRO CANADA DURON UHP 5W30

Sample No: LH0261199

**Oil Type:** 

### **SAMPLE INFORMATION**

Sample Number	LH0261199	LH0260743	LH0250904	
Sample Date	01 Sep 2023	26 May 2023	30 Jan 2023	
Machine Hours	2973	2461	1835	
Oil Hours	0	0	0	
Oil Changed	Changed	Changed	Changed	
Sample Status	NORMAL	NORMAL	ABNORMAL	

OIL C	ONDITIC	N			
Visc @ 100°C	cSt	13.9	12.2	13.6	
Oxidation (PA)	%	71	83	72	
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CON	TAMIN				
Soot %	%	0	0	0 (	
Nitration (PA)	%	76	85	75	
Sulfation (PA)	%	61	59	60	
Glycol	%	NEG	NEG	0.0	
Fuel	%	<1.0	<1.0	<1.0	
Silicon	ppm	0 11	0 27	0 30	
Sodium	ppm	03	5	2	
Potassium	ppm	0	0	0	

#### **WEAR METALS**

Iron	ppm	<b>0</b> 15	0 17	20	
Copper	ppm	<b>3</b>	03	6	
Lead	ppm	<b>○</b> <1	0	0	
Tin	ppm	0	0	○ <1	
Aluminum	ppm	<b>○</b> <1	0 1	2	
Chromium	ppm	<mark></mark> <1	○ <1	◯ <1	
Molybdenum	ppm	63	67	64	
Nickel	ppm	0	0	◯ <1	
Titanium	ppm	0	<1	◯ <1	
Silver	ppm	0	0	0	
Manganese	ppm	<b>○</b> <1	◯ <1	◯ <1	
Vanadium	ppm	0	0	0	

**ADDITIVES** 

Calcium	ppm	0 1181	911	1200	
Magnesium	ppm	0 1047	0 1179	0 1062	
Zinc	ppm	<b>0</b> 1306	1233	1327	
Phosphorus	ppm	<b>0</b> 1126	◯ 1100	0 1163	
Barium	ppm	0	0	0	
Boron	ppm	<b>5</b>	◯ 39	2	





SERVICES SANITAIRES ST-ANTOINE INC 16600 RTE SIR WILFRID-LAURIER MIRABEL, QC CA J7J 2G3 Contact: Service Manager

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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. Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The condition of the oil is acceptable for the time in service.

Depot:SERMIRUnique No:5633266Signed:Kevin MarsonReport Date:05 Sep 2023

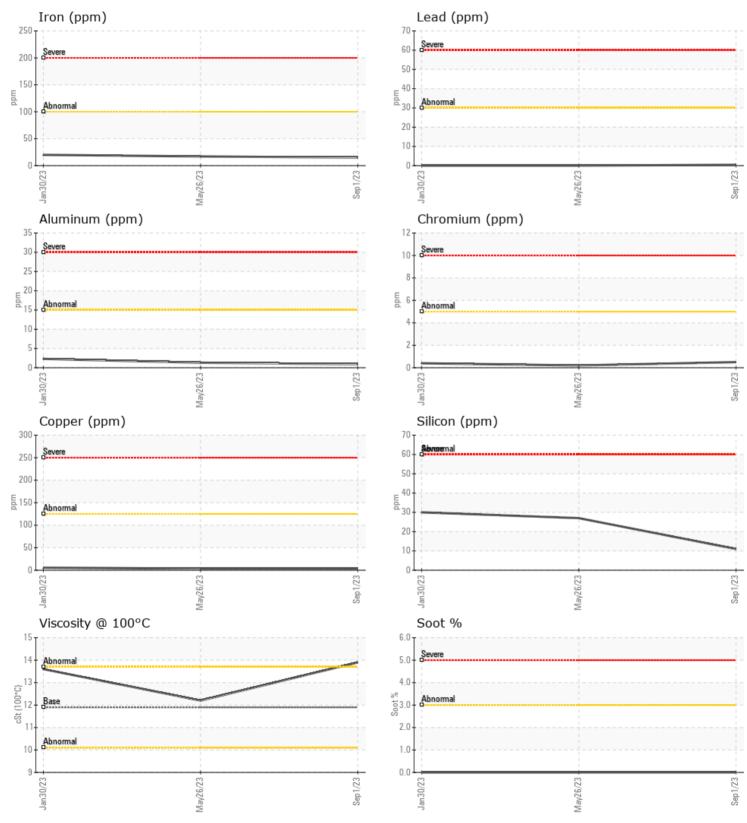
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