



C201690002 - Diesel Engine

Sample No: LH0265145

Oil Type:

PETRO CANADA DURON HP 15W40

0 13.7

84

04

09

SAMPLE INFORMATION Sample Number LH0265145 Sample Date 03 Mar 2024 Machine Hours 0 **Oil Hours** 0 Oil Changed N/A Sample Status NORMAL

OIL CONDITION Visc @ 100°C

Oxidation (PA)

Sodium

Potassium

Water	%	NEG					
Soot %	%	0					
Nitration (PA)	%	63					
Sulfation (PA)	%	54					
Glycol	%	0.0					
Fuel	%	<1.0					
Silicon	ppm	0 19					

WEAR METALS

ppm

ppm

cSt

%

Iron	ppm	5	 	
Copper	ppm	0 10	 	
Lead	ppm	02	 	
Tin	ppm	○ <1	 	
Aluminum	ppm	02	 	
Chromium	ppm	0 ()	 	
Molybdenum	ppm	0 44	 	
Nickel	ppm	0 ()	 	
Titanium	ppm	0	 	
Silver	ppm	0 ()	 	
Manganese	ppm	01	 	
Vanadium	ppm	0	 	

	TIVES			
Calcium	ppm	0 1418	 	
Magnesium	ppm	0 873	 	
Zinc	ppm	842	 	
Phosphorus	ppm	0 772	 	
Barium	ppm	0 12	 	
Boron	ppm	130	 	

Liebherr-Canada Ltd.

Fort McKay Industrial Park, Lot No. 12 and 13 Fort McMurray, AB CA T9H 5N3 Contact: Evan Moores evan.moores@liebherr.com т: F:

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Depot: LIEFTM Unique No: 5737518 Signed: Kevin Marson **Report Date:** 08 Mar 2024

Report Id: LIEFTM [WCAMIS] 02620408 (Generated: 03/08/2024 05:38:46) Rev: 1

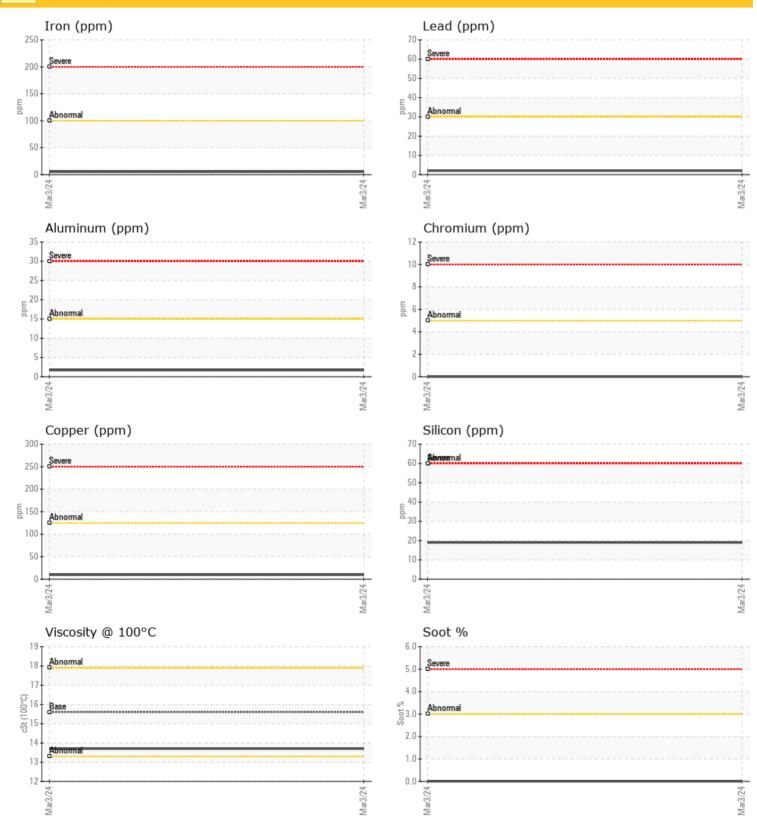
Contact/Location: Evan Moores - LIEFTM

CONSTRUCTION EQUIPMENT



GRAPHS

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Contact/Location: Evan Moores - LIEFTM