CONSTRUCTION EQUIPMENT

LIEBHERR LH30M 1253-144576 - Diesel Engine

PETRO CANADA DURON UHP 5W30

Sample No: LH0276410

Oil Type:

Δ.

SAMPLE INFORMATION

Sample Number	LH0276410	 	
Sample Date	10 Oct 2023	 	
Machine Hours	540	 	
Oil Hours	0	 	
Oil Changed	Changed	 	
Sample Status	ABNORMAL	 	

OIL CO	DNDITION		
Visc @ 100°C	cSt	0 11.4	
Base Number (BN)	mg KOH/g	5.1	
Oxidation (PA)	%	200	

Water	%	NEG				
Soot %	%	0.1				
Nitration (PA)	%	102				
Sulfation (PA)	%	108				
Glycol	%	NEG				
Fuel	%	<1.0				
Silicon	ppm	0 15				
Sodium	ppm	0 🔘				
Potassium	ppm	5				

WEAR METALS

Iron	ppm	0 13	 	
Copper	ppm	<u> </u>	 	
Lead	ppm	02	 	
Tin	ppm	01	 	
Aluminum	ppm	02	 	
Chromium	ppm	○ <1	 	
Molybdenum	ppm	0 46	 	
Nickel	ppm	0 ()	 	
Titanium	ppm	<1	 	
Silver	ppm	0 ()	 	
Manganese	ppm	○ <1	 	
Vanadium	ppm	0	 	

	IVES			
Calcium	ppm	0 1322	 	
Magnesium	ppm	892	 	
Zinc	ppm	850	 	
Phosphorus	ppm	686	 	
Barium	ppm	19	 	
Boron	ppm	0 84	 	





TRAM CONSTRUCTION 9279 E KY 8 GARRISON, KY

US 41141 Contact: Service Manager

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Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

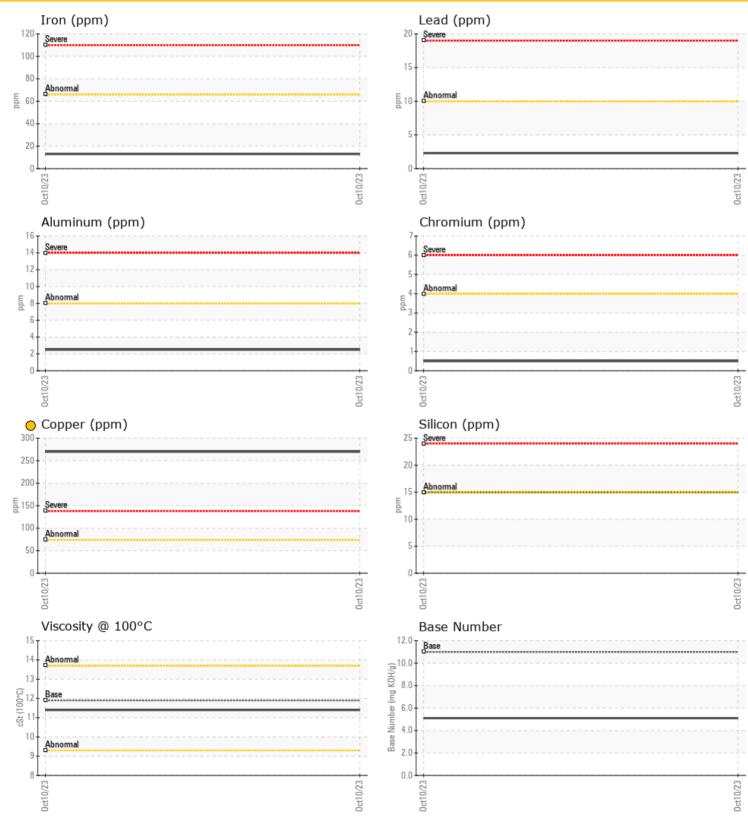
Depot: Unique No: Signed: **Report Date:** TRAGARLH 10806505 Jonathan Hester 29 Dec 2023





GRAPHS

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Report Id: TRAGARLH [WUSCAR] 06045897 (Generated: 12/29/2023 11:00:51) Rev: 1