CONSTRUCTION EQUIPMENT

PETRO CANADA 15W40

[BLANCHARD] LIEBHERR LH22 139277 - Diesel Engine

Sample No: LH0282717

Oil Type:

Sample Information

Sample Number		LH0282717	LH0261017	LH0243039			
Sample Date		08 Apr 2024	06 Jun 2023	01 Dec 2022			
Machine Hours		2161	1670	570			
Oil Hours		0	0	0			
Oil Changed		Changed	Changed	Changed			
Sample Status		NORMAL	ABNORMAL	NORMAL			
Oil Condition							
Visc @ 40°C	cSt		○ 71.6				
Visc @ 100°C	cSt	0 13.3	0 11.7	0 11.8			

Viscosity Index (VI) Scale -- 158 -- -- Oxidation (PA) % 75 78 174 --

Contamination						
Water	%	NEG	NEG	NEG		
Soot %	%	0	0	0		
Nitration (PA)	%	69	78	86		
Sulfation (PA)	%	62	58	103		
Glycol	%	NEG	NEG	NEG		
Fuel	%	<1.0	0.5	<1.0		
Silicon	ppm	04	32	56		
Sodium	ppm	3	○ 5	5		
Potassium	ppm	01	○ <1	○ <1		

Wear Metals

ppm	8 🔘	0 19	26	
ppm	04	0 6	0 15	
ppm	0 (0	0 1	
ppm	0 🔘	0	◯ <1	
ppm	01	0 1	3	
ppm	0 ()	○ <1	◯ <1	
ppm	09	62	37	
ppm	0 ()	○ <1	◯ <1	
ppm	<1	<1	<1	
ppm	0	0	0	
ppm	0 (○ <1	6	
ppm	0	0	0	
	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ppm 8 ppm 4 ppm 0 ppm 0 ppm 1 ppm 0 ppm 9 ppm 0 ppm 0	ppm 8 19 ppm 4 6 ppm 0 0 ppm 0 0 ppm 0 0 ppm 0 0 ppm 1 1 ppm 0 <1	ppm 8 19 26 ppm 4 6 15 ppm 0 0 1 ppm 0 0 <1

Additives Calcium 0 1938 ppm 930 0 1851 Magnesium 0 725 0 230 0 1142 ppm Zinc ppm 0 1149 0 1247 0 913 Phosphorus **951** 0 1118 0 851 ppm Barium **○** <1 0 07 ppm Boron 0 108 ppm ◯ 34 0 91



LIEBHERR CANADA LTD.

1015 SUTTON DRIVE BURLINGTON, ON CA L7L 5Z8 Contact: Steve Lehto steve.lehto@liebherr.com T: (905)319-9222 F: (905)319-6617

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. The condition of the oil is acceptable for the time in service.

 Depot:
 LIEMIS

 Unique No:
 5761852

 Signed:
 Wes Davis

 Report Date:
 15 Apr 2024

 Submitted By: Eric Leblond

Submi

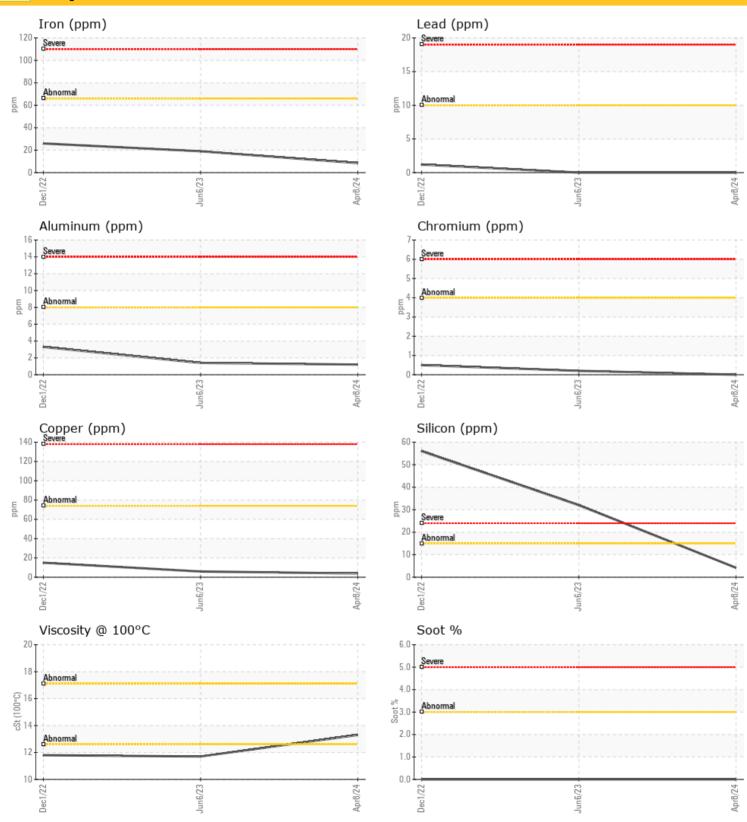
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Graphs



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