CONSTRUCTION EQUIPMENT

[(340260)] LIEBHERR LH40C 127925-1527 - Diesel Engine

PETRO CANADA DURON UHP E6 10W40

Sample No: LH0277658

Oil Type:

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- SAMP	LE INTORI					
Sample Number		LH0277658	LH0270151	LH0251578	LH0251901	
Sample Date		07 Dec 2023	27 Sep 2023	05 Apr 2023	12 Jan 2023	
Machine Hours		7010	6592	5459	4907	
Oil Hours		0	0	0	0	
Oil Changed		Changed	Changed	Changed	Changed	
Sample Status		NORMAL	NORMAL	NORMAL	NORMAL	
OIL CONDITION						
Visc @ 40°C	cSt	91.3				
Visc @ 100°C	cSt	0 13.5	0 13.4	0 13.4	0 13.4	
Viscosity Index (VI)	Scale	0 149				
Oxidation (PA)	%	62	68	64	69	
**						

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	60	68	68	70
Sulfation (PA)	%	51	53	59	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	07	6	6	07
Sodium	ppm	2	2	01	2
Potassium	ppm	○ <1	0	0	0

\bigcirc **VEAR METALS** Iron ppm 3 \bigcirc 3 \bigcirc 3 \bigcirc 3 Copper 02 $\bigcirc 2$ ppm $\bigcirc 2$ 2 Lead ◯ <1 ppm \bigcirc 0 <1 \bigcirc <1 Tin 0 ppm $\bigcirc 0$ ~ ~ Aluminum 01 ○ <1 1 $\bigcirc 1$ ppm Chromium 0 $\bigcirc 0$ 0 ppm $\bigcirc 0$ Molybdenum 0 56 0 59 0 59 ppm 0 56 Nickel ○ <1 $\bigcirc 0$ $\bigcirc 0$ ppm $\bigcirc <1$ Titanium 0 0 0 ppm 0 Silver ppm **○** <1 $\bigcirc 0$ 0 0 Manganese ppm 0 $\bigcirc 0$ ○ <1 ○ <1 Vanadium 0 0 C ppm

ADDITIVES						
Calcium	ppm	0 1163	0 1055	0 1127	0 1086	
Magnesium	ppm	915	974	944	943	
Zinc	ppm	0 1179	0 1200	0 1169	1169	
Phosphorus	ppm	961	997	0 1068	0 1057	
Barium	ppm	○ <1	○ <1	0	0	
Boron	ppm	3	○ 3	○ 5	04	

Depot:



CAN353TOR



CANADA IRON AND METAL CO. LTD.

3534 DUNDAS STREET WEST TORONTO, ON CA M6S 2S1 Contact: Joshua Kiminisky josh@canadairon.com T: F: (416)762-1808

Diagnosis

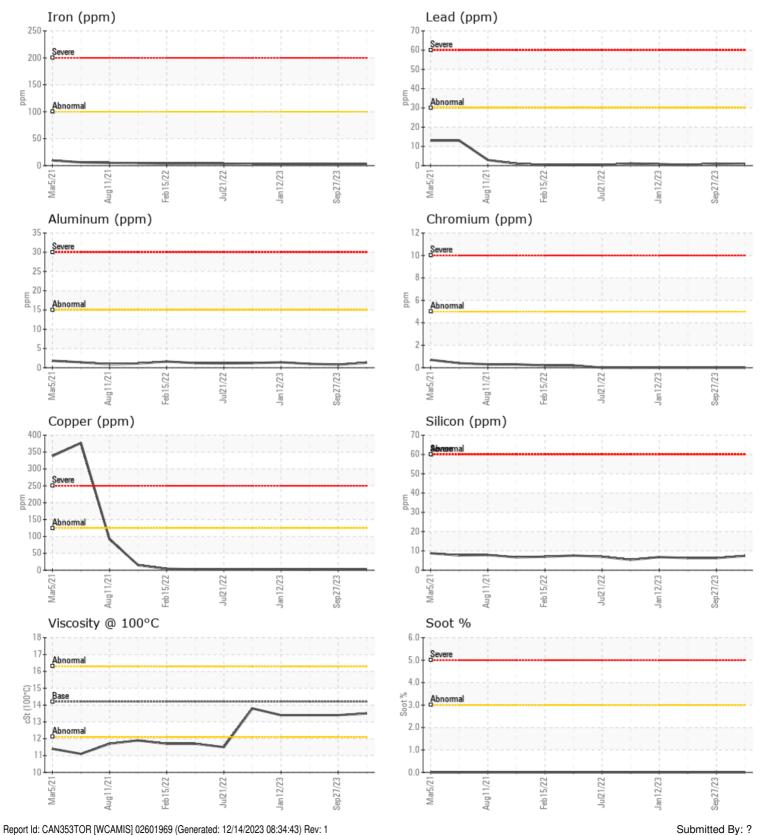
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.Light concentration of visible metal present. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.





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Submitted By: 4