

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(341438) [575628]] LIEBHERR LH60C119413-1528 - Hydraulic

Sample No: LH0269768

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



#### SAMPLE INFORMATION

Sample Number	LH0269768	LH0224962	LH0221793	LH0224900
Sample Date	21 Sep 2023	27 Oct 2022	10 Aug 2022	13 May 2022
Machine Hours	7642	6459	6039	5497
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	SEVERE	NORMAL	ATTENTION	ATTENTION

**AltaSteel**  
 9401 34 St NW  
 Edmonton, AB  
 CA T6B 2X6  
 Contact: Richard Bailey  
 richard.bailey@altasteel.com  
 T:  
 F:



#### OIL CONDITION

Visc @ 40°C	cSt	38.1	38.3	38.4	39.2
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#### CONTAMINATION

Water	%	0.017	---	---	0.010
Particles >4µm		16332	8733	16455	19906
Particles >6µm		7082	2774	5976	5782
Particles >14µm		1136	244	514	504
ISO 4406:1999 (c)		21/20/17	20/19/15	21/20/16	21/20/16
Silicon	ppm	2	1	1	1
Sodium	ppm	2	2	2	1
Potassium	ppm	<1	<1	<1	0



#### WEAR METALS

PQ		14	---	---	---
Iron	ppm	95	48	42	33
Copper	ppm	10	9	10	9
Lead	ppm	<1	1	1	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	<1	0
Manganese	ppm	1	1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	464	514	539	506
Magnesium	ppm	2	2	2	2
Zinc	ppm	719	677	705	693
Phosphorus	ppm	595	605	574	593
Barium	ppm	<1	0	0	0
Boron	ppm	1	3	<1	<1

#### Diagnosis

We recommend you service the filters on this component. Re-sampling is suggested to confirm test results prior to significant maintenance activities being performed. Please indicate that this is a resample on your Sample Information Form (SIF). We recommend an early resample to monitor this condition. Iron ppm levels are severe. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The water content is negligible. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

**Depot:** ALT940EDM  
**Unique No:** 5646644  
**Signed:** Kevin Marson  
**Report Date:** 28 Sep 2023

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## CONSTRUCTION EQUIPMENT



### GRAPHS

