

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L586 046356-1334 - Hydraulic System

Sample No: LH0277392

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



#### SAMPLE INFORMATION

Sample Number	LH0277392	LH0238577	LH0230518	LH0226960
Sample Date	04 Jan 2024	17 Sep 2022	10 May 2022	01 May 2022
Machine Hours	4931	11615	10602	3241
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	SEVERE	SEVERE	SEVERE	NORMAL

**MODERN CONSTRUCTION (1983) LTD.**  
 364 BRIGGS CROSS ROAD  
 STILESVILLE, NB  
 CA E1G 3G3  
 Contact: Blaine Cail  
 blaine.cail@moderngroup.ca  
 T:  
 F:



#### OIL CONDITION

Visc @ 40°C	cSt	49.3	41.9	43.5	40.6



#### CONTAMINATION

Water	%	0.424	NEG	NEG	NEG
Particles >4µm		126252	77650	98558	4470
Particles >6µm		5066	11636	12814	636
Particles >14µm		159	138	5	56
ISO 4406:1999 (c)		24/20/14	23/21/14	24/21/10	19/16/13
Silicon	ppm	5	65	72	3
Sodium	ppm	8	5	5	2
Potassium	ppm	6	9	9	2



#### WEAR METALS

PQ		2	---	---	---
Iron	ppm	104	42	51	16
Copper	ppm	3	6	6	2
Lead	ppm	2	4	4	<1
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	2	29	32	1
Chromium	ppm	4	2	3	<1
Molybdenum	ppm	0	0	0	<1
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	2	2	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	1	<1
Vanadium	ppm	0	0	<1	0



#### ADDITIVES

Calcium	ppm	13	768	295	20
Magnesium	ppm	2	18	19	3
Zinc	ppm	68	872	834	45
Phosphorus	ppm	301	744	695	222
Barium	ppm	<1	0	<1	0
Boron	ppm	5	17	3	<1

#### Diagnosis

Check seals and/or filters for points of contaminant entry. We advise that you check for the source of water entry. We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. 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 silt (particulates < 14 microns in size) present in the oil. There is a moderate concentration of water present in the oil. Additive levels indicate the addition of a different brand, or type of oil. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

**Depot:** MODSTI  
**Unique No:** 5708227  
**Signed:** Kevin Marson  
**Report Date:** 10 Jan 2024

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## CONSTRUCTION EQUIPMENT



### GRAPHS

