## CONSTRUCTION EQUIPMENT

## LIEBHERR LH30M 123295-1253 - Hydraulic System

Sample No: LH0277023

Oil Type:

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PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL

	PLE INFOR/	MATION				
Sample Number		LH0277023	LH0260372	LH0224255	LH0194612	
Sample Date		19 Oct 2023	14 Jun 2023	21 Apr 2022	23 Sep 2021	
Machine Hours		5676	5074	0	2168	
Oil Hours		0	0	0	0	
Oil Changed		Changed	Changed	Not Changd	N/A	
Sample Status		SEVERE	SEVERE	ABNORMAL	NORMAL	
Visc @ 40°C	cSt	0 41.4	0 41.3	42.5	42.3	
CONT	AMINATIO	N				
Particles >4µm		<b>5892</b>	13523	12994	0 1534	

Particles >4µm		<b>5892</b>	13523	12994	0 1534
Particles >6µm		0 1636	3426	2970	273
Particles >14µm		0 111	0 145	0 175	0 15
ISO 4406:1999 (c)		20/18/14	21/19/14	21/19/15	18/15/11
Silicon	ppm	<b>3</b>	3	2	2
Sodium	ppm	04	3	3	02
Potassium	maa	<b>○</b> <1	02	01	02

WEA	<b>R METAI</b>	LS			
PQ		<b>9</b>	0 10	0	0
Iron	ppm	162	0 121	0 72	54
Copper	ppm	07	6	0 4	0 4
Lead	ppm	01	01	◯ <1	○ <1
Tin	ppm	0	0	0	0
Aluminum	ppm	<mark></mark> <1	○ <1	◯ <1	○ <1
Chromium	ppm	0 2	2	0 1	○ <1
Molybdenum	ppm	04	○ 5	○ 5	0
Nickel	ppm	0	◯ <1	◯ <1	0
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	<1
Manganese	ppm	02	0 2	01	○ <1
Vanadium	ppm	0	<1	0	0

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0	

	DITIVES					
Calcium	ppm	1155	1144	1242	1307	
Magnesium	ppm	60	62	69	6	
Zinc	ppm	692	695	721	678	
Phosphorus	ppm	○ 580	0 654	651	○ 609	
Barium	ppm	<b>○</b> <1	0	0	0	
Boron	ppm	0 14	0 14	0 18	◯ <1	



JOHN ROSS & SONS LTD. 85 GLASSY AVENUE TRURO, NS CA B2N 6Z1 Contact: Service Manager

## T: F:

## Diagnosis

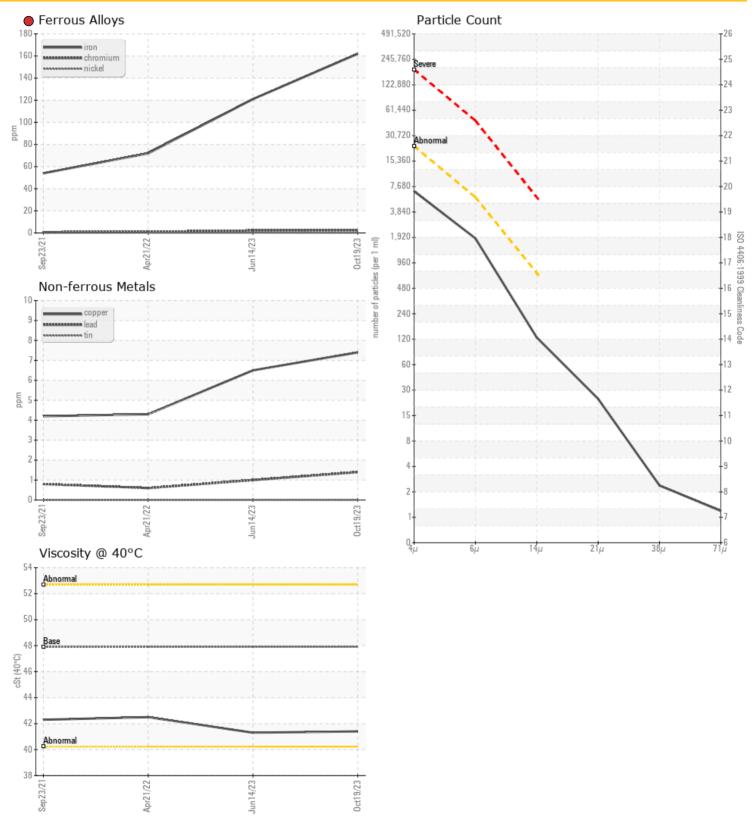
The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Iron ppm levels are severe. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: Unique No: Signed: Report Date: JOHTRU 5669504 Kevin Marson 30 Oct 2023









Report Id: JOHTRU [WCAMIS] 02592425 (Generated: 11/01/2023 09:29:49) Rev: 1