

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 110456-1216 - Hydraulic System

Sample No: LH0277115

Oil Type: PETRO CANADA HYDREX AW 46



J.D. Irving

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SAMPLE INFORMATION

Sample Number	LH0277115	LH0234603	LH0246695	LH0230484
Sample Date	13 Oct 2023	01 Apr 2023	15 Dec 2022	25 Apr 2022
Machine Hours	17581	16012	0	13977
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	42.9	43.2	43.3	41.5
Visc @ 100°C	cSt	---	---	8	---
Viscosity Index (VI)	Scale	---	---	159	---



CONTAMINATION

Water	%	0.025	---	---	---
Particles >4µm		9213	845	9211	6419
Particles >6µm		3032	157	1182	1082
Particles >14µm		258	10	8	92
ISO 4406:1999 (c)		20/19/15	17/14/10	20/17/10	20/17/14
Silicon	ppm	<1	<1	<1	<1
Sodium	ppm	1	<1	<1	1
Potassium	ppm	<1	1	1	1



WEAR METALS

Iron	ppm	15	13	11	19
Copper	ppm	1	1	1	2
Lead	ppm	<1	0	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	0	0	0	<1
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	91	104	102	139
Magnesium	ppm	<1	1	1	3
Zinc	ppm	734	732	698	735
Phosphorus	ppm	594	646	611	605
Barium	ppm	<1	0	0	0
Boron	ppm	<1	<1	1	1

Diagnosis

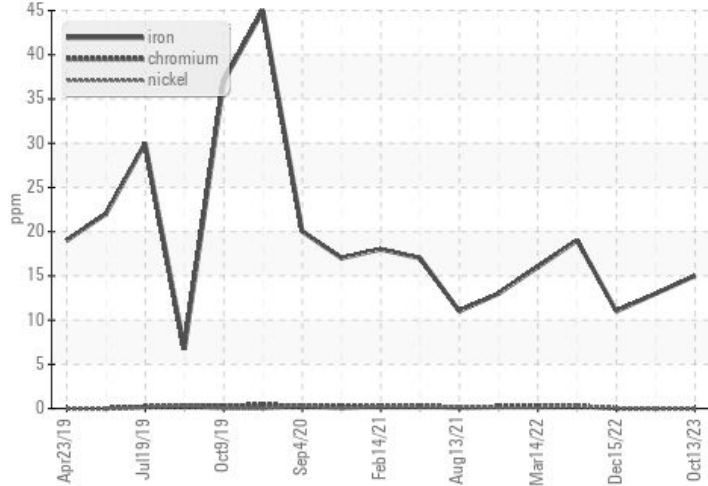
Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The condition of the oil is acceptable for the time in service.

Depot: JDITRU
Unique No: 5668139
Signed: Wes Davis
Report Date: 25 Oct 2023

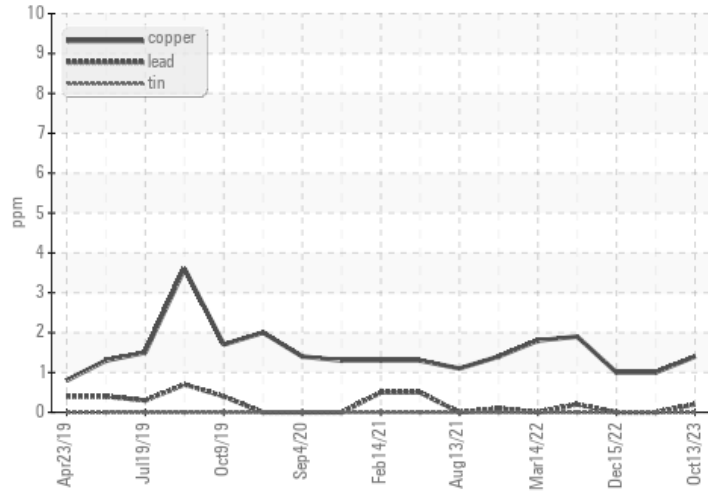


GRAPHS

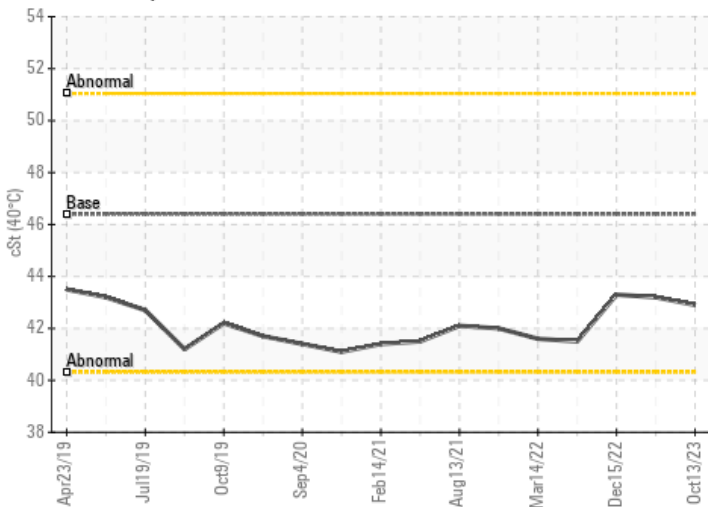
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

