

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 097459-1216 - Hydraulic System

Sample No: LH0230408

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



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SAMPLE INFORMATION

Sample Number	LH0230408	LH0194734	LH0194637	LH0180229
Sample Date	05 May 2022	29 Oct 2021	25 Jul 2021	06 Oct 2020
Machine Hours	22049	20093	17995	0
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Not Changd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	42.1	42.2	41.9	40.8
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CONTAMINATION

Water	%	0.009	---	---	---
Particles >4µm		17343	14102	6291	4064
Particles >6µm		3258	3290	786	588
Particles >14µm		122	172	16	26
ISO 4406:1999 (c)		21/19/14	21/19/15	20/17/11	19/16/12
Silicon	ppm	1	<1	<1	1
Sodium	ppm	<1	<1	<1	<1
Potassium	ppm	<1	<1	<1	<1



WEAR METALS

Iron	ppm	35	20	18	23
Copper	ppm	1	1	1	2
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	<1	<1	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	0	0	<1
Nickel	ppm	<1	<1	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	78	81	69	80
Magnesium	ppm	1	<1	<1	<1
Zinc	ppm	609	678	600	586
Phosphorus	ppm	493	551	501	447
Barium	ppm	0	0	0	0
Boron	ppm	<1	<1	<1	<1

Diagnosis

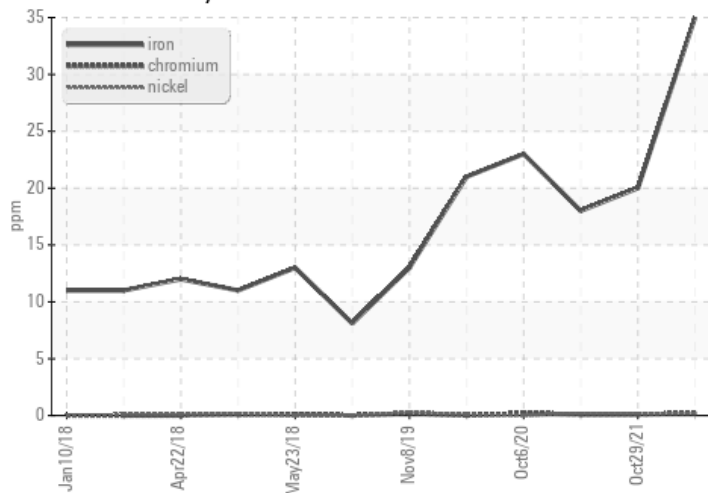
Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable. The condition of the oil is acceptable for the time in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

Depot: JDITRU
 Unique No: 5409251
 Signed: Wes Davis
 Report Date: 06 Jun 2022

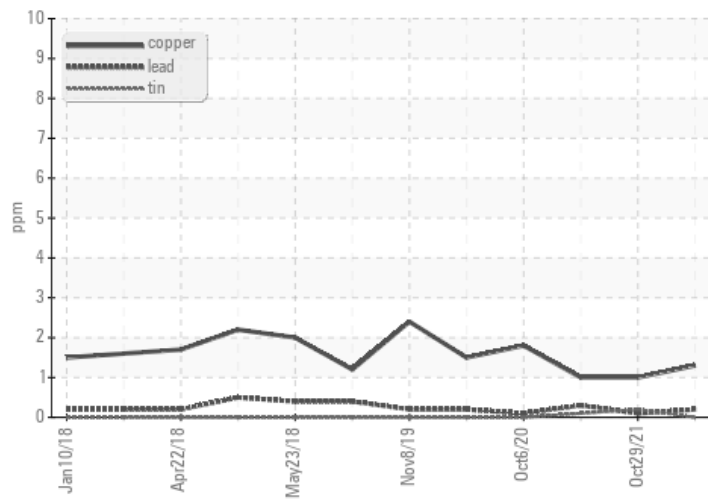


GRAPHS

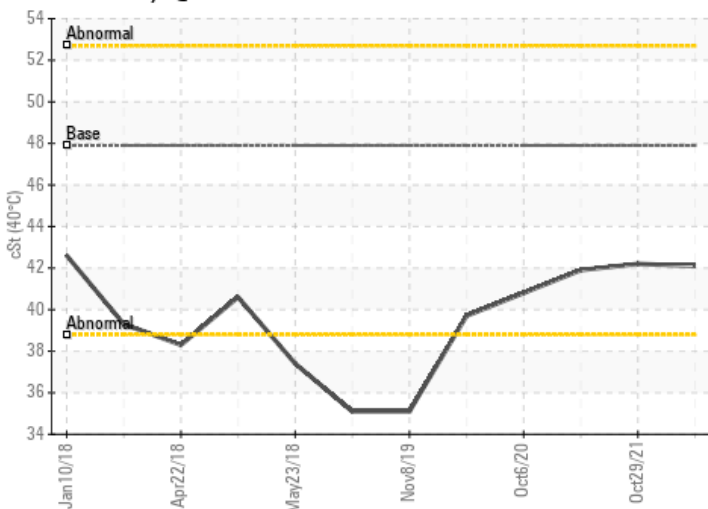
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

