

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L526 058450-1558 - Hydraulic System

Sample No: LH0289590

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



Sample Information

Sample Number	LH0289590	LH0261290	LH0247230	LH0230920
Sample Date	15 Apr 2024	21 Apr 2023	06 Dec 2022	26 May 2022
Machine Hours	3938	3178	2702	1792
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL

CLOUTHIER VENTURES LTD.
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Oil Condition

Visc @ 40°C	cSt	44.9	44.0	44.0	45.0
		●	●	●	●



Contamination

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		● 11931	● 27517	● 8015	● 7779
Particles >6µm		● 1504	● 6866	● 627	● 435
Particles >14µm		● 70	● 385	● 8	● 13
ISO 4406:1999 (c)		21/18/13	22/20/16	20/16/10	20/16/11
Silicon	ppm	● 2	● 3	● 3	● 2
Sodium	ppm	● 3	● 3	● 2	● 3
Potassium	ppm	● 1	● 2	● 2	● 2

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.



Wear Metals

Iron	ppm	● 14	● 16	● 13	● 11
Copper	ppm	● 3	● 4	● 4	● 3
Lead	ppm	● 3	● 5	● 5	● 4
Tin	ppm	● 0	● <1	● <1	● <1
Aluminum	ppm	● 1	● 1	● <1	● <1
Chromium	ppm	● <1	● <1	● <1	● <1
Molybdenum	ppm	● 0	● 0	● 0	● 0
Nickel	ppm	● 0	● <1	● 0	● 0
Titanium	ppm	● 0	● <1	● <1	● 0
Silver	ppm	● 0	● 0	● 0	● 0
Manganese	ppm	● 0	● <1	● <1	● <1
Vanadium	ppm	● 0	● 0	● 0	● 0



Additives

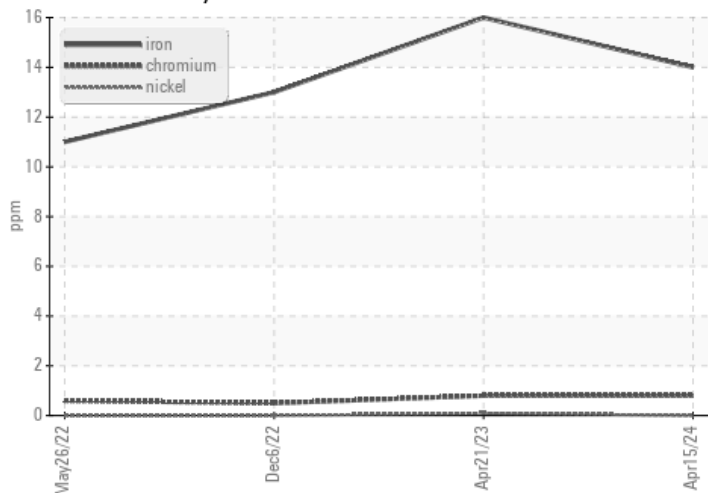
Calcium	ppm	● 874	● 1265	● 1367	● 1382
Magnesium	ppm	● 6	● 7	● 8	● 8
Zinc	ppm	● 731	● 692	● 672	● 718
Phosphorus	ppm	● 602	● 643	● 649	● 622
Barium	ppm	● 0	● 0	● 0	● 0
Boron	ppm	● <1	● <1	● 0	● <1

Depot: CLOPEM
 Unique No: 5763091
 Signed: Wes Davis
 Report Date: 18 Apr 2024

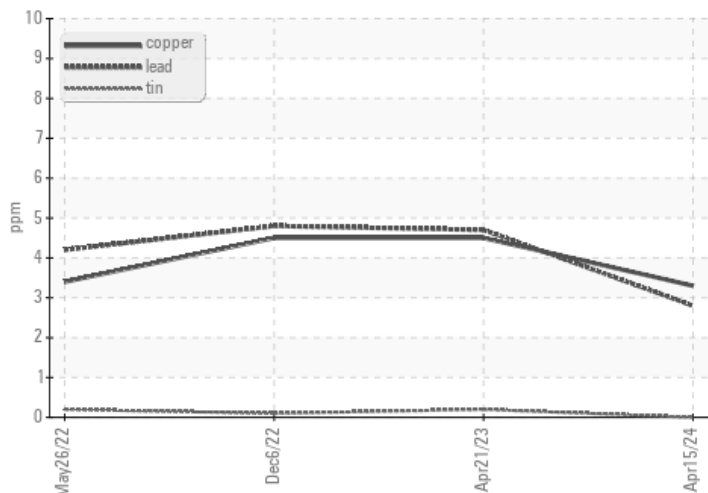


Graphs

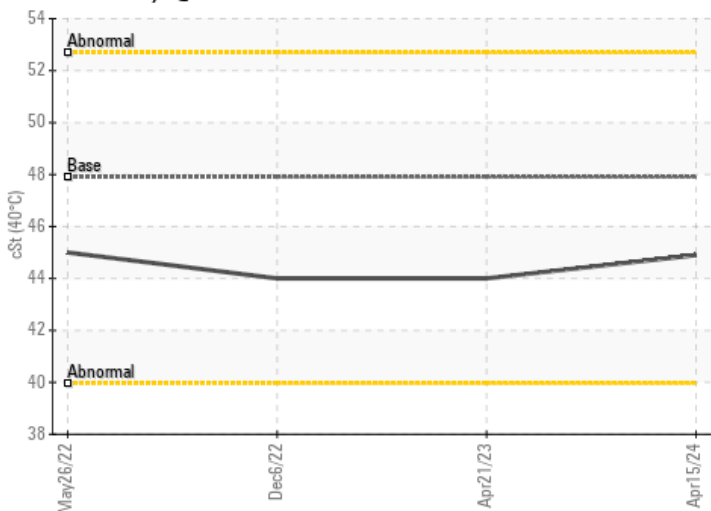
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

