

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 068244 - Hydraulic System

Sample No: LH0234433

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



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SAMPLE INFORMATION

Sample Number	LH0234433	LH0250037	LH0150847	LH0234468
Sample Date	09 Jun 2023	28 May 2023	30 Mar 2023	28 Jan 2023
Machine Hours	4612	4345	3398	2283
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	N/A
Sample Status	NORMAL	ABNORMAL	ABNORMAL	ATTENTION



OIL CONDITION

Visc @ 40°C	cSt	42.5	42.8	43.8	44.2
		●	●	●	●



CONTAMINATION

Particles >4µm		● 2611	● 44006	● 84835	● 30640
Particles >6µm		● 534	● 14105	● 10328	● 5671
Particles >14µm		● 50	● 973	● 542	● 272
ISO 4406:1999 (c)		19/16/13	23/21/17	24/21/16	22/20/15
Silicon	ppm	● 3	● 3	● 3	● 3
Sodium	ppm	● <1	● <1	● <1	● <1
Potassium	ppm	● <1	● 0	● <1	● 0



WEAR METALS

Iron	ppm	● 10	● 9	● 9	● 8
Copper	ppm	● 2	● 2	● 2	● 2
Lead	ppm	● 4	● 4	● 3	● 3
Tin	ppm	● 0	● 0	● <1	● <1
Aluminum	ppm	● <1	● <1	● <1	● 1
Chromium	ppm	● 2	● 2	● 1	● 1
Molybdenum	ppm	● 0	● 0	● 0	● 0
Nickel	ppm	● <1	● <1	● 0	● 0
Titanium	ppm	● 0	● 0	● 0	● <1
Silver	ppm	● 0	● 0	● 0	● 0
Manganese	ppm	● <1	● <1	● <1	● <1
Vanadium	ppm	● 0	● 0	● 0	● 0



ADDITIVES

Calcium	ppm	● 662	● 684	● 726	● 857
Magnesium	ppm	● 8	● 8	● 4	● 2
Zinc	ppm	● 765	● 744	● 767	● 774
Phosphorus	ppm	● 666	● 658	● 681	● 711
Barium	ppm	● 0	● 0	● 0	● 0
Boron	ppm	● <1	● 0	● <1	● <1

Diagnosis

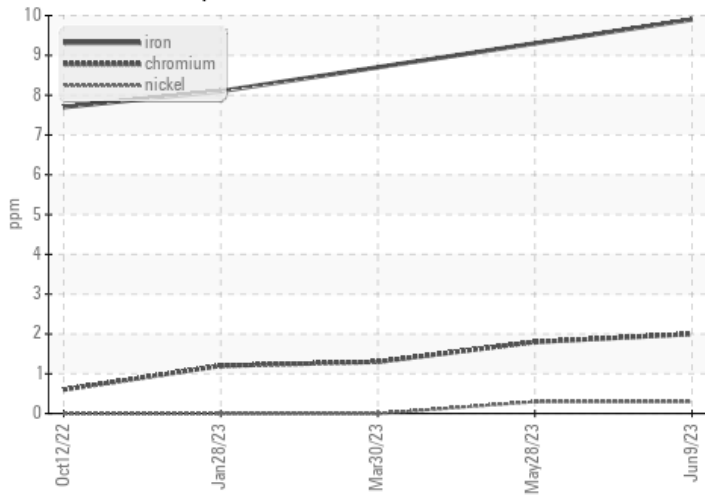
Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The condition of the oil is acceptable for the time in service.

Depot: MANSEL
 Unique No: 5606479
 Signed: Kevin Marson
 Report Date: 13 Jul 2023

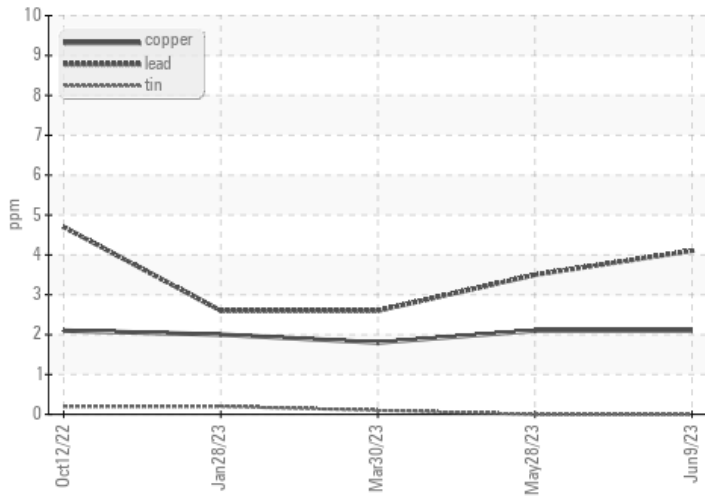


GRAPHS

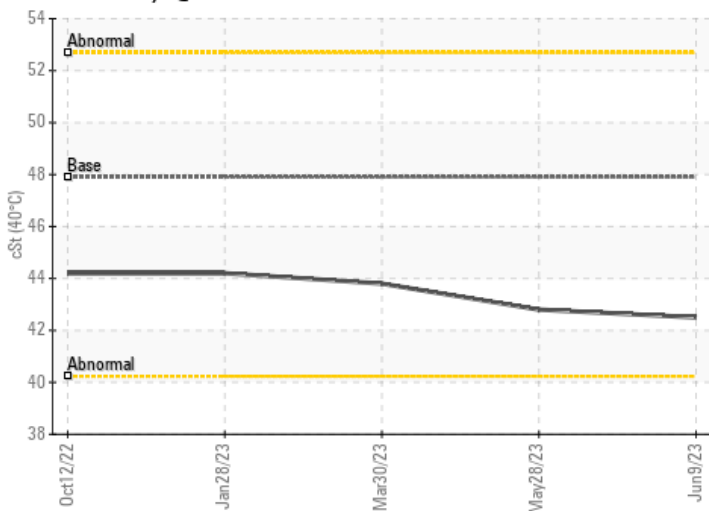
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

