

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 068244 - Hydraulic System

Sample No: LH0278596

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



SAMPLE INFORMATION

Sample Number	LH0278596	LH0278518	LH	LH0234433
Sample Date	21 Feb 2024	22 Dec 2023	15 Sep 2023	09 Jun 2023
Machine Hours	8026	7142	0	4612
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	43.4	43.5	44.4	42.5
		●	●	●	●



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		● 60599	● 94488	● 7891	● 2611
Particles >6µm		● 9993	● 26430	● 902	● 534
Particles >14µm		● 902	● 1766	● 28	● 50
ISO 4406:1999 (c)		23/20/17	24/22/18	20/17/12	19/16/13
Silicon	ppm	● 2	● 2	● 1	● 3
Sodium	ppm	● <1	● <1	● <1	● <1
Potassium	ppm	● <1	● <1	● 0	● <1

Diagnosis

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



WEAR METALS

Iron	ppm	● 9	● 7	● 4	● 10
Copper	ppm	● 1	● 1	● <1	● 2
Lead	ppm	● 4	● 2	● 2	● 4
Tin	ppm	● 0	● 0	● 0	● 0
Aluminum	ppm	● 1	● <1	● <1	● <1
Chromium	ppm	● 2	● 2	● <1	● 2
Molybdenum	ppm	● 0	● 0	● 0	● 0
Nickel	ppm	● 0	● <1	● 0	● <1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	● 0	● 0	● 0	● <1
Vanadium	ppm	0	0	0	0



ADDITIVES

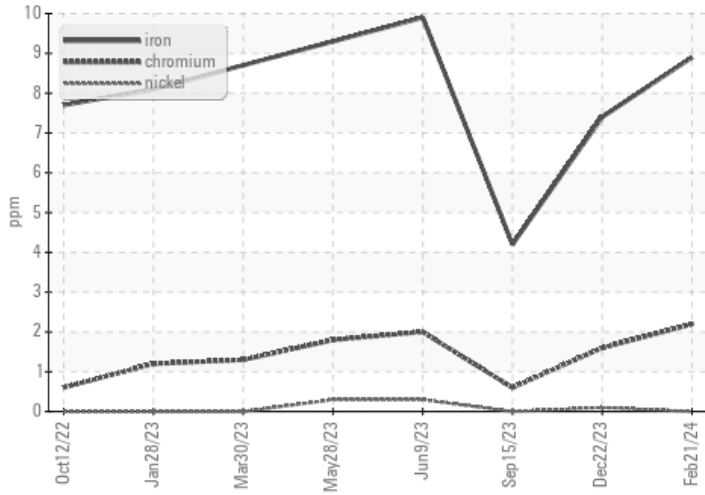
Calcium	ppm	● 189	● 189	● 211	● 662
Magnesium	ppm	● 17	● 20	● 24	● 8
Zinc	ppm	● 760	● 688	● 735	● 765
Phosphorus	ppm	● 607	● 549	● 578	● 666
Barium	ppm	● <1	● <1	● <1	● 0
Boron	ppm	● 0	● 0	● <1	● <1

Depot: MANSEL
 Unique No: 5736670
 Signed: Kevin Marson
 Report Date: 05 Mar 2024

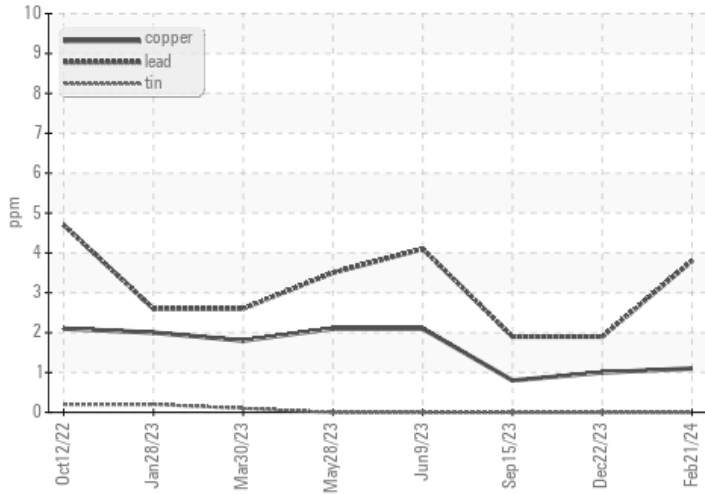


GRAPHS

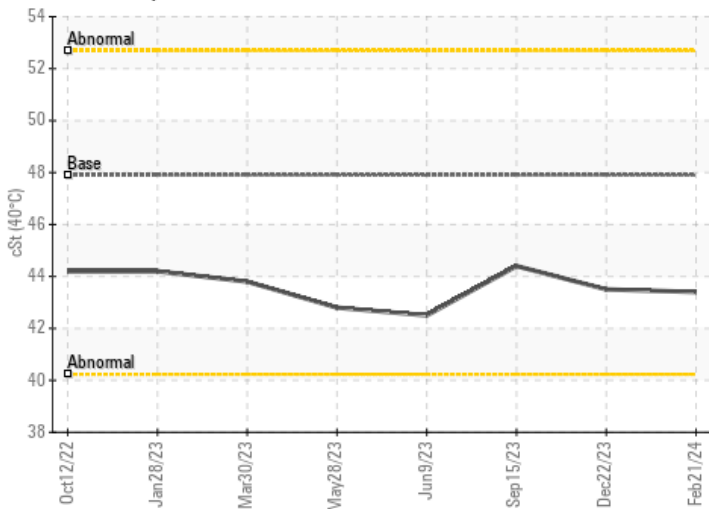
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

