

LIEBHERR

CONSTRUCTION EQUIPMENT



[DNA] LIEBHERR 024303 - Hydraulic System

Sample No: LH0286677

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



SAMPLE INFORMATION

Sample Number	LH0286677	LH0251543	LH0235015	LH0214164
Sample Date	25 Mar 2024	02 Mar 2023	08 Dec 2022	22 Nov 2021
Machine Hours	19048	18339	18131	17000
Oil Hours	0	0	8131	7000
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	ATTENTION	ABNORMAL	ABNORMAL	ABNORMAL

DOMINION NICKEL ALLOYS LTD.

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OIL CONDITION

Visc @ 40°C	cSt	44.7	44.5	44.5	44.0
		●	●	●	●



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		● 29603	● 21163	● 69478	● 17585
Particles >6µm		● 1777	● 1134	● 18809	● 2588
Particles >14µm		● 57	● 119	● 787	● 86
ISO 4406:1999 (c)		22/18/13	22/17/14	23/21/17	21/19/14
Silicon	ppm	● 0	● <1	● <1	● 1
Sodium	ppm	● <1	● 1	● <1	● 1
Potassium	ppm	● <1	● <1	● 0	● <1

Diagnosis

We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

PQ		---	● 0	● 0	● 0
Iron	ppm	● 10	● 26	● 25	● 32
Copper	ppm	● 1	● 2	● 2	● 3
Lead	ppm	● 0	● <1	● <1	● <1
Tin	ppm	● 0	● 0	● 0	● <1
Aluminum	ppm	● 0	● <1	● <1	● <1
Chromium	ppm	● 7	● 24	● 21	● 25
Molybdenum	ppm	● 0	● 0	● <1	● <1
Nickel	ppm	● 0	● <1	● 0	● <1
Titanium	ppm	0	● <1	● <1	0
Silver	ppm	0	0	0	● <1
Manganese	ppm	● 0	● <1	● <1	● <1
Vanadium	ppm	0	0	0	0



ADDITIVES

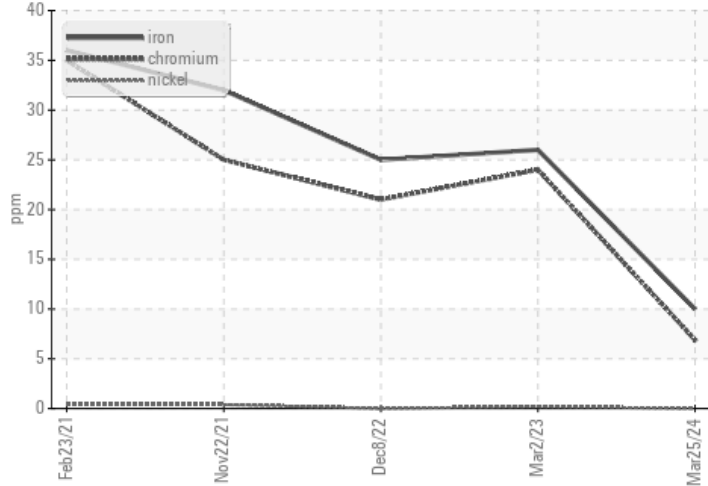
Calcium	ppm	● 67	● 72	● 71	● 81
Magnesium	ppm	● 1	● 1	● 1	● 2
Zinc	ppm	415	● 430	● 428	● 443
Phosphorus	ppm	324	● 380	● 379	● 379
Barium	ppm	● 0	● 0	● 0	● 0
Boron	ppm	● <1	● <1	● 0	● 1

Depot: DOMBUR
Unique No: 5749855
Signed: Wes Davis
Report Date: 27 Mar 2024

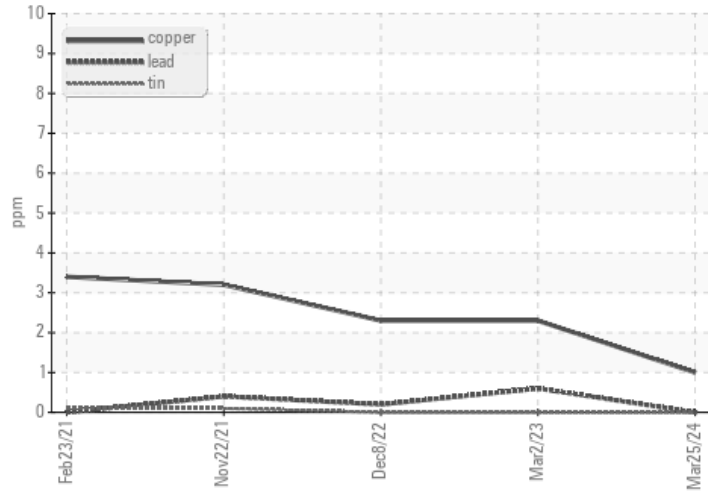


GRAPHS

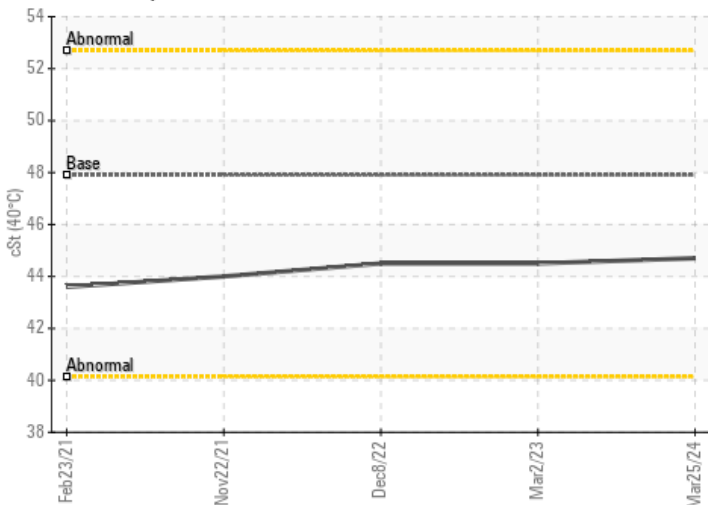
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

