

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A904IND 054434 - Hydraulic System

Sample No: LH0250500

Oil Type: PETRO CANADA ENVIRON MV 46



Schnitzer Steel Canada Ltd.
 12195 Musqueam Dr.
 Surrey, BC
 CA V3V 3T2
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SAMPLE INFORMATION

Sample Number	LH0250500	LH0240709	LH0240797	LH0221974
Sample Date	01 Jun 2023	06 Mar 2023	28 Nov 2022	09 Sep 2022
Machine Hours	14536	14290	13992	13726
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	40.8	40.4	40.3	40.2
		●	●	●	●



CONTAMINATION

Particles >4µm		● 4691	● 3632	● 916	● 391
Particles >6µm		● 731	● 1086	● 87	● 68
Particles >14µm		● 57	● 97	● 6	● 4
ISO 4406:1999 (c)		19/17/13	19/17/14	17/14/10	16/13/9
Silicon	ppm	● 1	● 1	● 1	● 1
Sodium	ppm	● 2	● 2	● 3	● 2
Potassium	ppm	● <1	● <1	● <1	● <1



WEAR METALS

Iron	ppm	● 25	● 34	● 34	● 33
Copper	ppm	● 2	● 2	● 2	● 2
Lead	ppm	● 0	● <1	● <1	● <1
Tin	ppm	● 0	● <1	● 0	● <1
Aluminum	ppm	● <1	● <1	● <1	● <1
Chromium	ppm	● 4	● 5	● 5	● 5
Molybdenum	ppm	● <1	● <1	● <1	● <1
Nickel	ppm	● 0	● <1	● <1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	● <1	● <1	● <1	● <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	● 32	28	● 30	● 29
Magnesium	ppm	● 4	● 6	● 6	● 6
Zinc	ppm	33	35	37	37
Phosphorus	ppm	● 636	● 635	● 626	● 609
Barium	ppm	● 0	● 0	● 0	● 0
Boron	ppm	● <1	● <1	● <1	● <1

Diagnosis

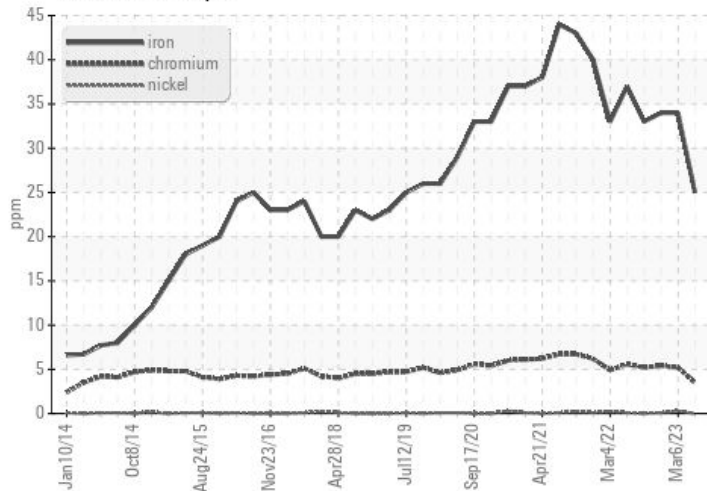
Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The condition of the oil is acceptable for the time in service.

Depot: AMISUR
 Unique No: 5629638
 Signed: Kevin Marson
 Report Date: 18 Aug 2023

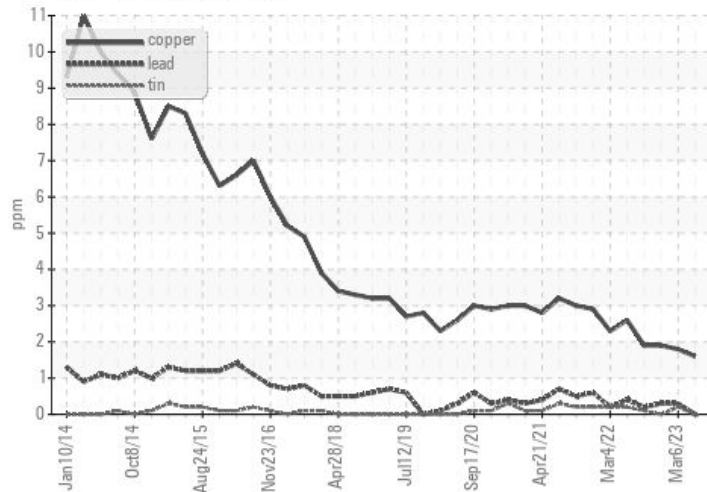


GRAPHS

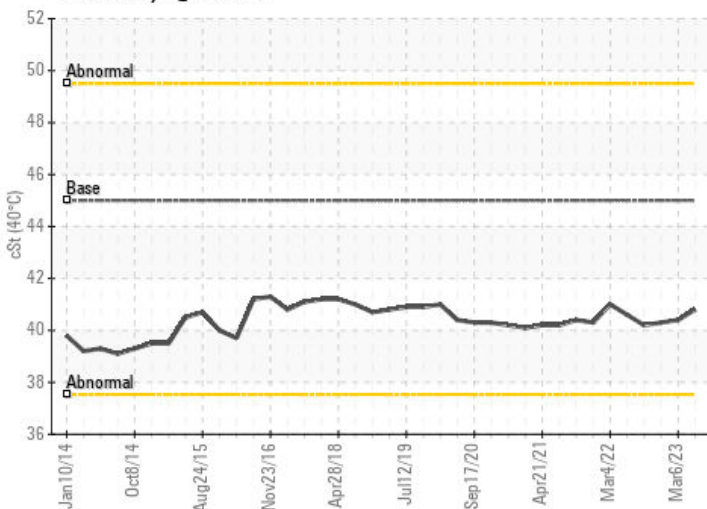
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

