

LIEBHERR

CONSTRUCTION EQUIPMENT



FL2642 - Hydraulic System

Sample No: LH0250491

Oil Type: PETRO CANADA ENVIRON MV 46



SAMPLE INFORMATION

Sample Number	LH0250491	LH0240795	LH0240800	LH0218537
Sample Date	17 May 2023	16 Dec 2022	07 Oct 2022	29 Jul 2022
Machine Hours	1801	1398	1204	971
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ATTENTION	ATTENTION

Schnitzer Steel Canada Ltd.
 12195 Musqueam Dr.
 Surrey, BC
 CA V3V 3T2
 Contact: Shane Brown
 sbrown@amix.ca
 T: (604)823-6990
 F: (604)823-6913



OIL CONDITION

Visc @ 40°C	cSt	39.9	40.0	40.2	40.4
		●	●	●	●



CONTAMINATION

Particles >4µm		● 15047	● 11276	● 8456	● 7849
Particles >6µm		● 2335	● 1224	● 1067	● 1110
Particles >14µm		● 108	● 16	● 43	● 36
ISO 4406:1999 (c)		21/18/14	21/17/11	20/17/13	20/17/12
Silicon	ppm	● <1	● <1	● <1	● <1
Sodium	ppm	● <1	● <1	● <1	● <1
Potassium	ppm	● <1	● 0	● <1	● 0



WEAR METALS

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



ADDITIVES

Calcium	ppm	● 7	● 7	● 7	● 4
Magnesium	ppm	● 1	● 2	● 1	● <1
Zinc	ppm	● 30	● 27	● 26	● 24
Phosphorus	ppm	● 698	● 680	● 712	● 704
Barium	ppm	● <1	● 0	● 0	● 0
Boron	ppm	● <1	● <1	● <1	● 0

Diagnosis

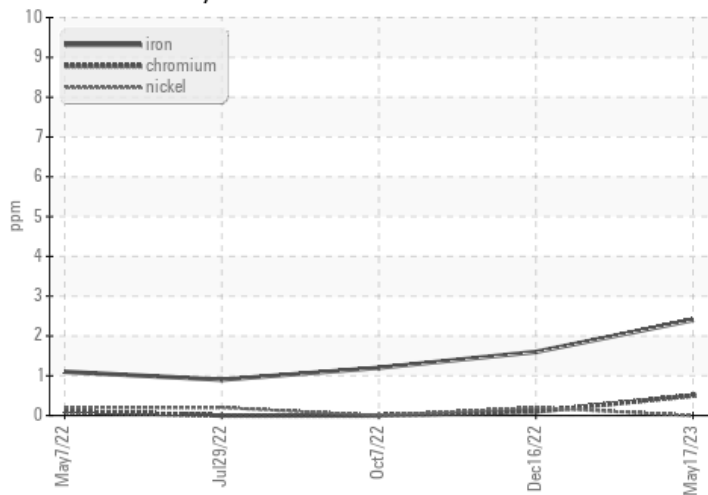
We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample. All component wear rates are normal. There is a moderate 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 oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Depot: AMISUR
 Unique No: 5629645
 Signed: Kevin Marson
 Report Date: 21 Aug 2023

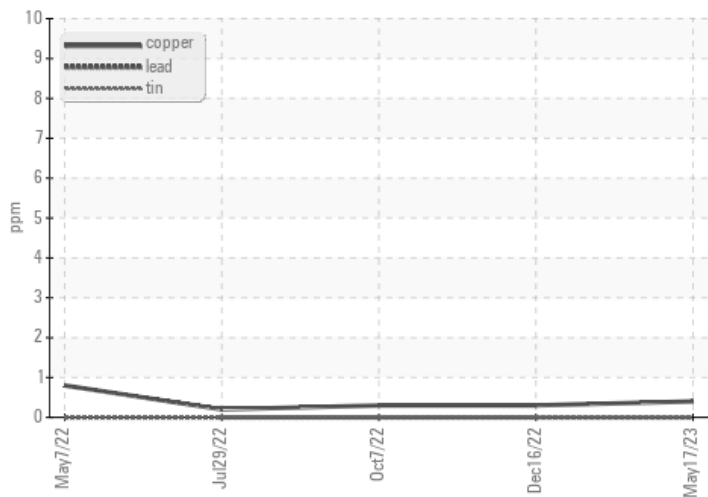


GRAPHS

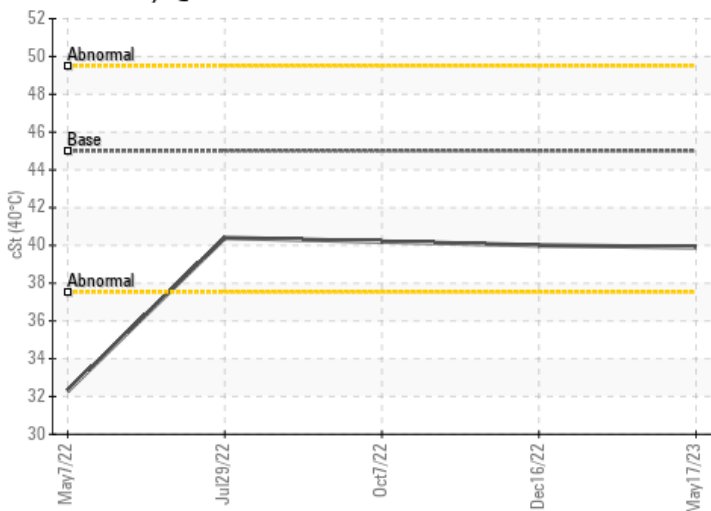
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

