

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### KOMATSU ET9340 - Hydraulic System

Sample No: LH0250483

Oil Type: PETRO CANADA HYDREX MV 46



**Schnitzer Steel Canada Ltd.**  
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Surrey, BC  
CA V3V 3T2  
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#### SAMPLE INFORMATION

Sample Number	LH0250483	LH0240793	LH0221976	LH0218542
Sample Date	10 May 2023	22 Dec 2022	10 Sep 2022	17 Jun 2022
Machine Hours	11883	11611	11354	11107
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	41.9	42.3	40.6	40.5



#### CONTAMINATION

Particles >4µm		14738	16246	2320	3942
Particles >6µm		400	3140	415	144
Particles >14µm		8	327	76	5
ISO 4406:1999 (c)		21/16/10	21/19/16	18/16/13	19/14/10
Silicon	ppm	<1	1	1	1
Sodium	ppm	<1	<1	<1	<1
Potassium	ppm	0	0	0	<1



#### WEAR METALS

PQ		---	---	---	0
Iron	ppm	7	11	14	24
Copper	ppm	<1	<1	<1	1
Lead	ppm	0	<1	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	2	3	4	8
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	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	156	243	77	85
Magnesium	ppm	4	6	6	8
Zinc	ppm	62	91	46	57
Phosphorus	ppm	682	697	697	635
Barium	ppm	0	0	0	0
Boron	ppm	2	2	1	2

#### 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. 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: 5629630  
Signed: Kevin Marson  
Report Date: 18 Aug 2023

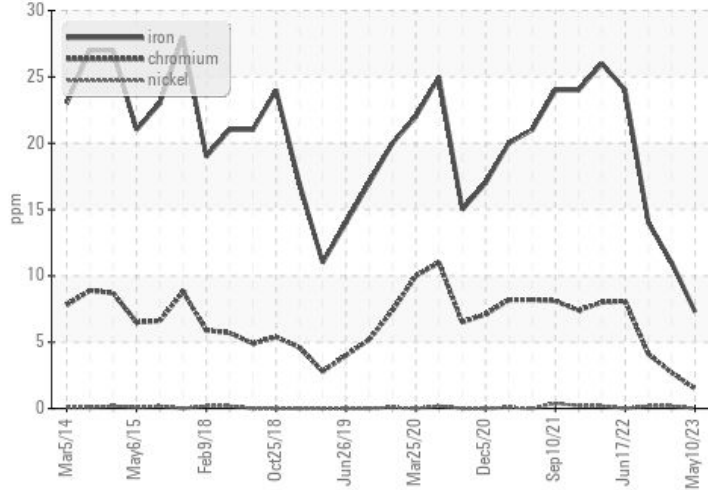
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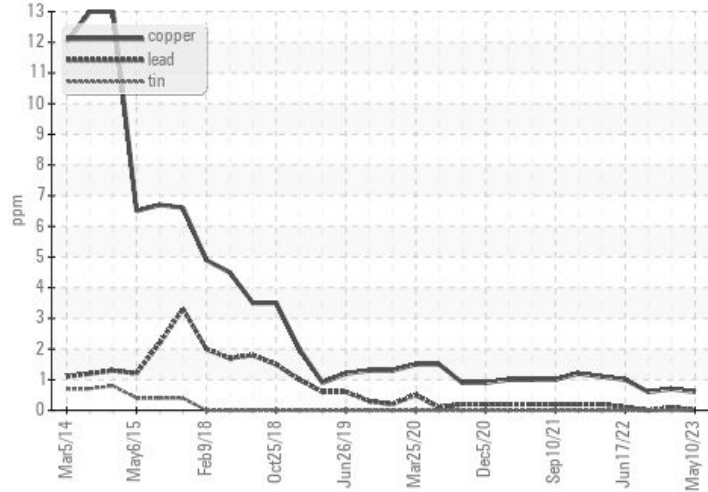


### GRAPHS

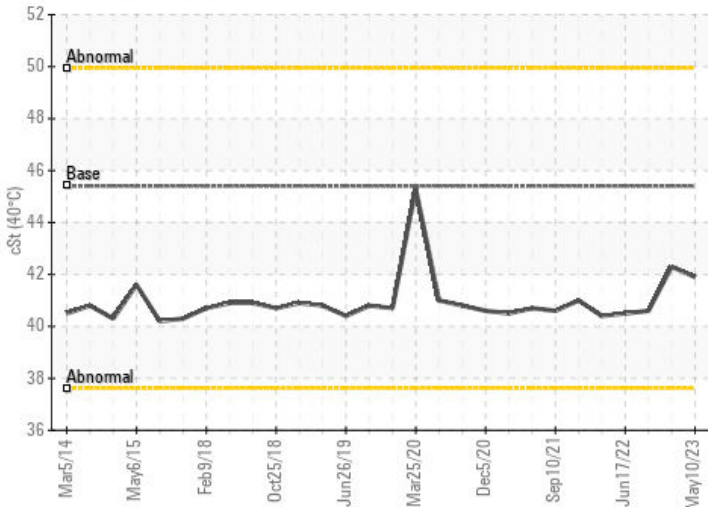
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

