LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR A904C 62433-1071 (S/N 1071-62433) - Hydraulic S

Sample No: LH0250525

Oil Type: PETRO CANADA ENVIRON MV 46

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

Sample Number		**LH0250525**	LH0250485	LH0240782	LH0240790
Sample Date		**27 Jul 2023**	09 May 2023	13 Mar 2023	21 Dec 2022
Machine Hours		**20652**	0	20102	19836
Oil Hours		**0**	0	0	0
Oil Changed		**Not Changd**	Not Changd	Not Changd	Not Changd
Sample Status		**ABNORMAL**	ABNORMAL	ABNORMAL	NORMAL

OIL CONDITION

Visc @ 40°C	cSt	**40.6**	40.6	40.6	40.8

CONTAMINATION

Particles >4µm		**4251**	27795	10934	19225
Particles >6µm		**356**	7339	361	516
Particles >14µm		**26**	244	22	29
ISO 4406:1999 (c)		**19/16/12**	22/20/15	21/16/12	21/16/12
Silicon	ppm	**1**	<1	<1	<1
Sodium	ppm	**1**	1	1	1
Potassium	ppm	**2**	2	1	1

WEAR METALS

PQ		**5**	3	6	---
Iron	ppm	**80**	78	62	35
Copper	ppm	**2**	2	2	1
Lead	ppm	**<1**	0	<1	<1
Tin	ppm	**0**	0	<1	0
Aluminum	ppm	**<1**	1	<1	<1
Chromium	ppm	**3**	3	3	2
Molybdenum	ppm	**<1**	<1	<1	<1
Nickel	ppm	**0**	0	0	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	**19**	15	15	14
Magnesium	ppm	**4**	3	3	2
Zinc	ppm	**27**	24	23	18
Phosphorus	ppm	**643**	627	659	451
Barium	ppm	**0**	0	0	0
Boron	ppm	**<1**	<1	<1	<1

Diagnosis

We recommend an early resample to monitor this condition.Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. 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: 5629665
Signed: Kevin Marson
Report Date: 18 Aug 2023

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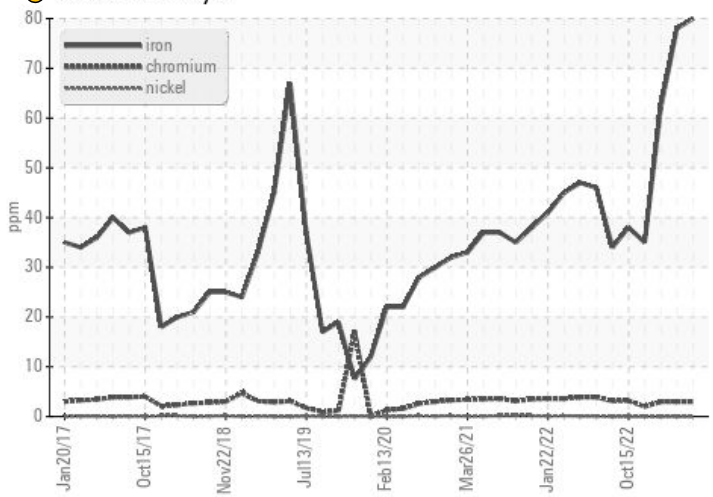
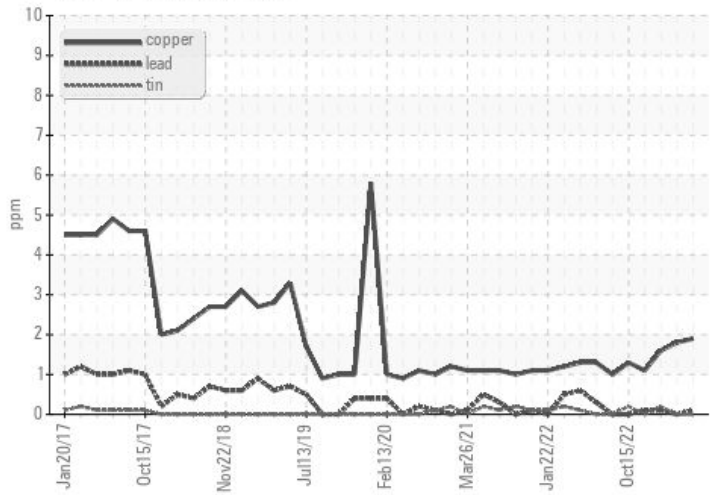
GRAPHS

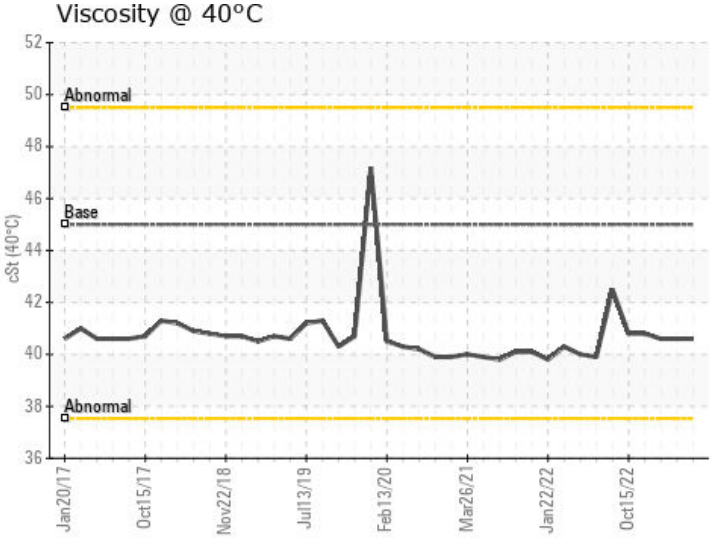
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count