

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH40C 078990 - Hydraulic System

Sample No: LH0277724

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



SAMPLE INFORMATION

Sample Number	LH0277724	LH0261401	LH0239414	LH0242347
Sample Date	27 Nov 2023	25 May 2023	03 Feb 2023	03 Nov 2022
Machine Hours	11438	10991	10512	10000
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

MOFFATT SCRAP IRON & METAL INC.
 9620 GUELPH LINE
 CAMPBELLVILLE, ON
 CA L0P 1B0
 Contact: Paul Brochu
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 F: (905)854-1225



OIL CONDITION

Visc @ 40°C	cSt	37.1	39.6	41.9	40.7



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		7053	3328	15964	7120
Particles >6µm		1770	304	3773	1718
Particles >14µm		80	17	217	100
ISO 4406:1999 (c)		20/18/13	19/15/11	21/19/15	20/18/14
Silicon	ppm	<1	<1	1	1
Sodium	ppm	1	<1	<1	2
Potassium	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 oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	12	12	11	21
Copper	ppm	2	2	2	3
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	1	2	2	3
Molybdenum	ppm	0	<1	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

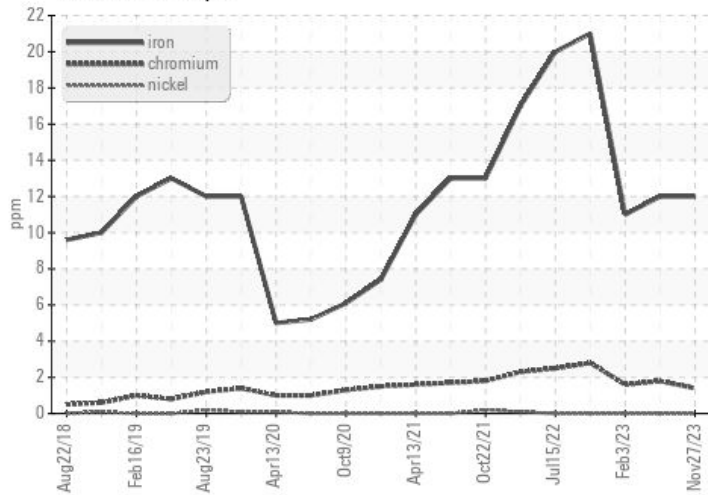
Calcium	ppm	82	85	107	143
Magnesium	ppm	4	4	4	8
Zinc	ppm	598	677	732	692
Phosphorus	ppm	498	618	636	604
Barium	ppm	<1	0	0	0
Boron	ppm	1	1	1	<1

Depot: MOFMOF
 Unique No: 5684525
 Signed: Kevin Marson
 Report Date: 30 Nov 2023

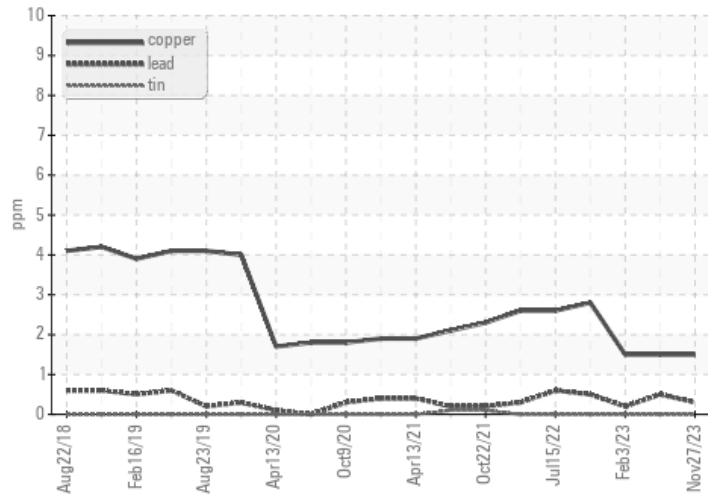


GRAPHS

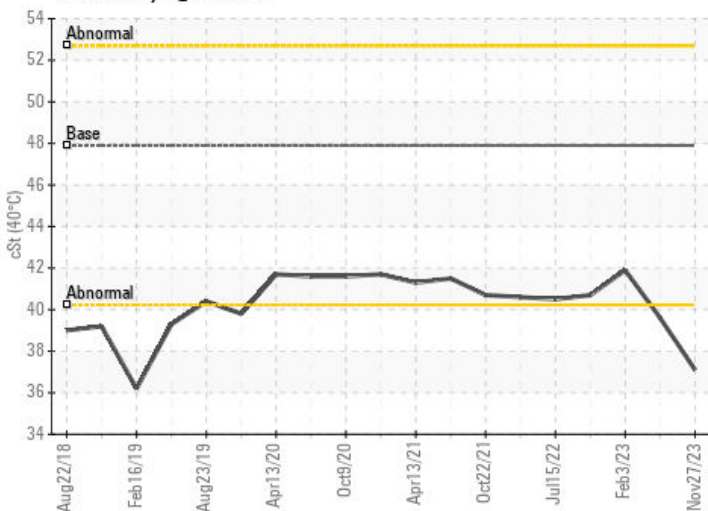
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

