LIEBHERR
CONSTRUCTION EQUIPMENT

[(354194)] LIEBHERR LH40C 132159-1527 - Hydraulic System

Sample No: LH0209426

Oil Type: {unknown}

National Salvage Ltd.
206-33 Street N
Lethbridge, AB
CA T1H 3Z5
Contact: Service Manager

T:
F:

SAMPLE INFORMATION

Sample Number		**LH0209426**	LH0209417	LH	LH
Sample Date		**09 Feb 2024**	19 Jul 2023	25 Apr 2023	27 Jan 2023
Machine Hours		**1000**	3200	3500	2200
Oil Hours		**0**	0	0	0
Oil Changed		**Changed**	Not Changd	N/A	N/A
Sample Status		**NORMAL**	NORMAL	NORMAL	NORMAL

OIL CONDITION

Visc @ 40°C	cSt	**30.5**	30.8	30.5	31.0
Acid Number (AN)	mg KOH/g	**0.84**	0.95	---	---

CONTAMINATION

Water	%	**NEG**	NEG	NEG	NEG
Particles >4µm		**1272**	1038	1501	1469
Particles >6µm		**436**	356	584	571
Particles >14µm		**42**	41	68	83
ISO 4406:1999 (c)		**17/16/13**	17/16/13	18/16/13	18/16/14
Silicon	ppm	**3**	2	2	2
Sodium	ppm	**<1**	<1	<1	<1
Potassium	ppm	**<1**	<1	0	0

WEAR METALS

Iron	ppm	**37**	33	30	28
Copper	ppm	**3**	3	2	2
Lead	ppm	**<1**	0	<1	0
Tin	ppm	**0**	0	0	0
Aluminum	ppm	**<1**	<1	<1	<1
Chromium	ppm	**<1**	<1	<1	<1
Molybdenum	ppm	**0**	<1	<1	0
Nickel	ppm	**0**	0	0	<1
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	**552**	553	581	588
Magnesium	ppm	**4**	4	4	4
Zinc	ppm	**526**	535	527	531
Phosphorus	ppm	**456**	474	478	488
Barium	ppm	**0**	0	0	0
Boron	ppm	**<1**	<1	<1	<1

Diagnosis

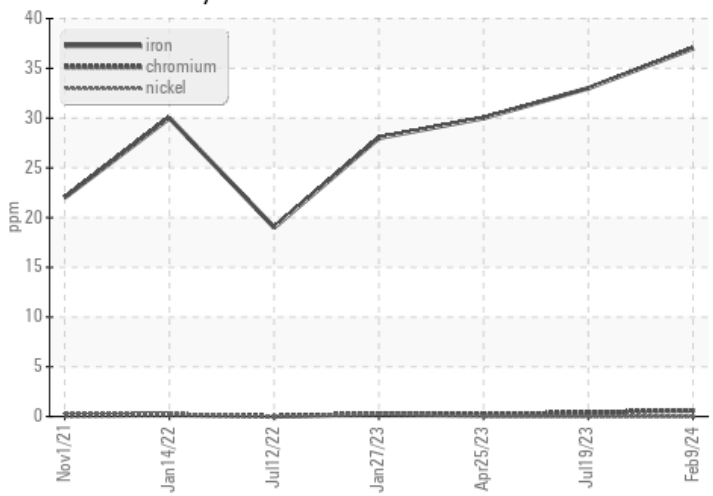
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: NATLET
Unique No: 5724136
Signed: Wes Davis
Report Date: 13 Feb 2024

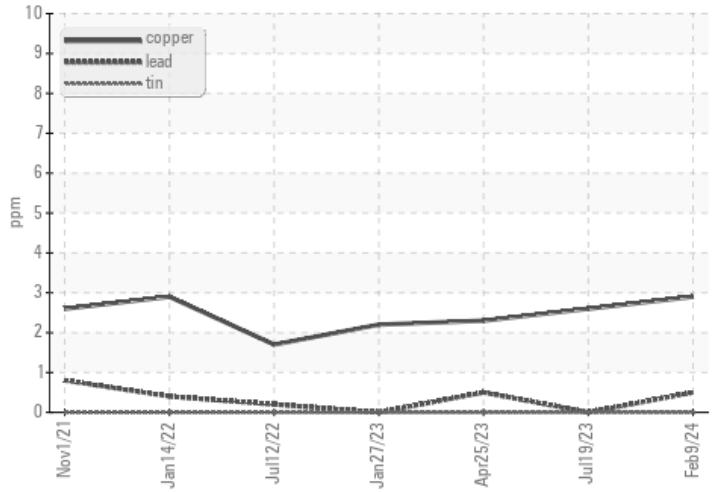
LIEBHERR
CONSTRUCTION EQUIPMENT

GRAPHS

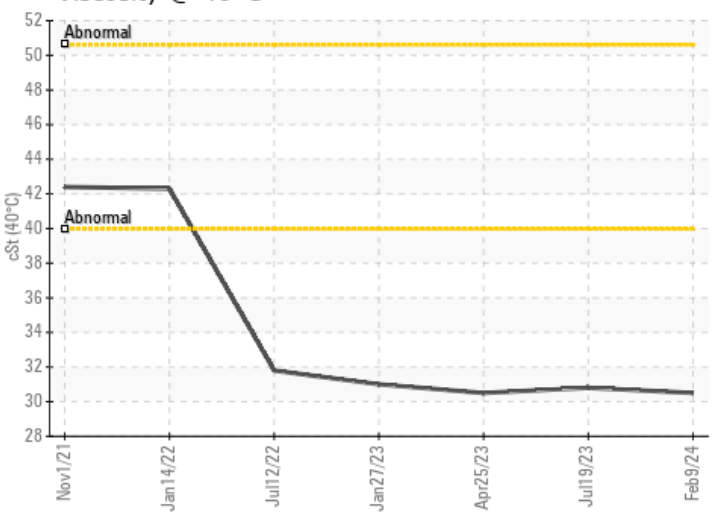
Ferrous Alloys



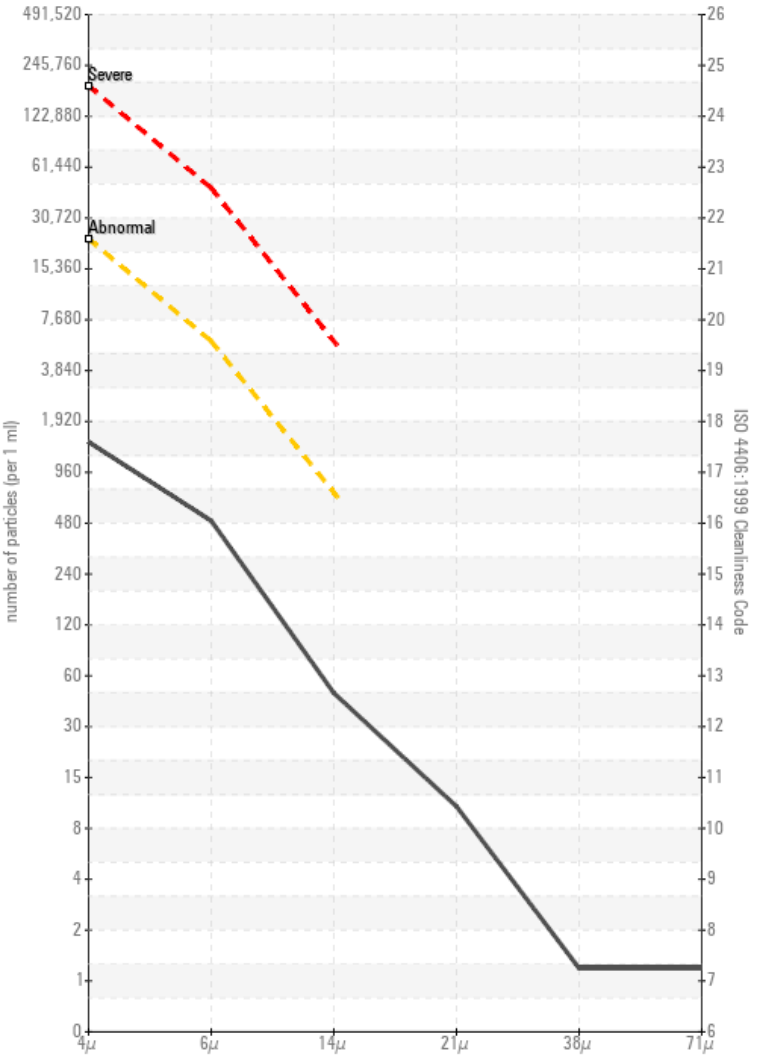
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number