LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR L580 067666-1760 - Hydraulic System

Sample No: LH0233937

Oil Type: AW HYDRAULIC OIL ISO 46

WEST CARLETON SAND & GRAVEL INC.
3232 CARP ROAD
CARP, ON
CA K0A 1L0
Contact: Troy Whalen
twhalen@acon.com
T: (613)836-3090
F:

SAMPLE INFORMATION

Sample Number		**LH0233937**	LH0176020	LH0234003	---
Sample Date		**22 Jan 2024**	02 Aug 2023	15 Dec 2022	---
Machine Hours		**5478**	1520	1081	---
Oil Hours		**0**	0	0	---
Oil Changed		**Changed**	Changed	Not Changd	---
Sample Status		**ABNORMAL**	NORMAL	ABNORMAL	---

OIL CONDITION

Visc @ 40°C	cSt	**42.0**	43.8	42.5	---
Acid Number (AN)	mg KOH/g	**1.11**	---	1.71	---

CONTAMINATION

Water	%	**NEG**	NEG	NEG	---
Particles >4µm		**36742**	6967	104718	---
Particles >6µm		**1052**	1019	20270	---
Particles >14µm		**7**	40	18	---
ISO 4406:1999 (c)		**22/17/10**	20/17/12	24/22/11	---
Silicon	ppm	**4**	4	8	---
Sodium	ppm	**4**	2	18	---
Potassium	ppm	**2**	<1	3	---

WEAR METALS

PQ		**0**	---	0	---
Iron	ppm	**22**	5	22	---
Copper	ppm	**5**	2	3	---
Lead	ppm	**<1**	6	<1	---
Tin	ppm	**0**	<1	0	---
Aluminum	ppm	**1**	1	1	---
Chromium	ppm	**<1**	<1	0	---
Molybdenum	ppm	**0**	0	0	---
Nickel	ppm	**0**	0	<1	---
Titanium	ppm	**0**	0	<1	---
Silver	ppm	**0**	0	0	---
Manganese	ppm	**0**	0	<1	---
Vanadium	ppm	**0**	0	0	---

ADDITIVES

Calcium	ppm	**1177**	1289	3395	---
Magnesium	ppm	**6**	11	8	---
Zinc	ppm	**620**	701	1394	---
Phosphorus	ppm	**528**	650	1220	---
Barium	ppm	**0**	0	0	---
Boron	ppm	**<1**	<1	98	---

Diagnosis

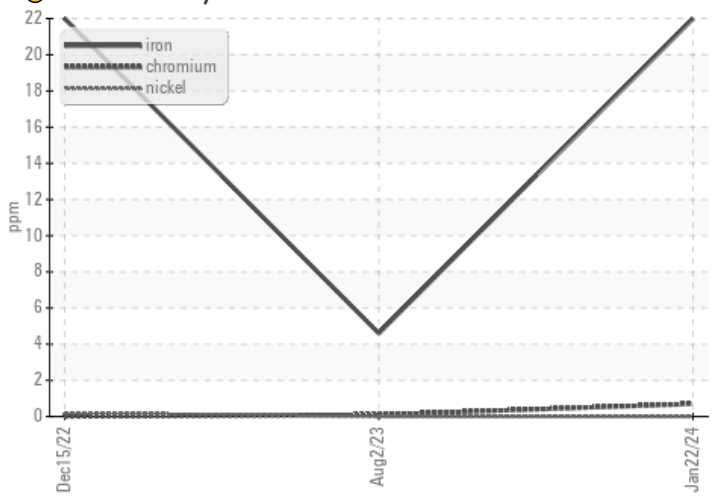
Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: WES654STI
Unique No: 5723158
Signed: Kevin Marson
Report Date: 08 Feb 2024

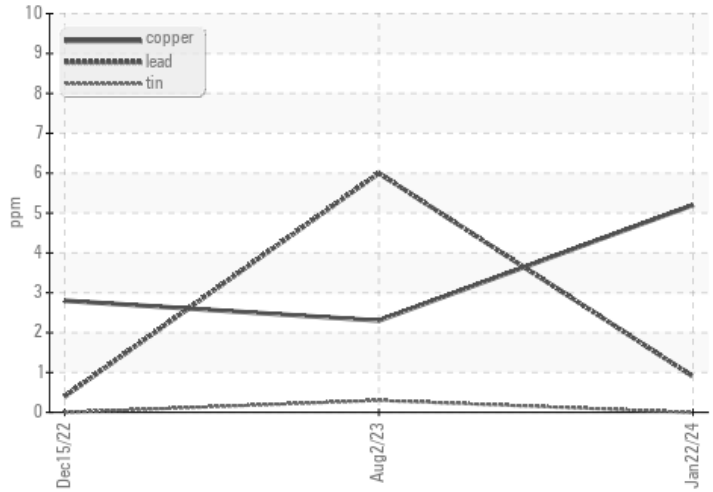
LIEBHERR
CONSTRUCTION EQUIPMENT

GRAPHS

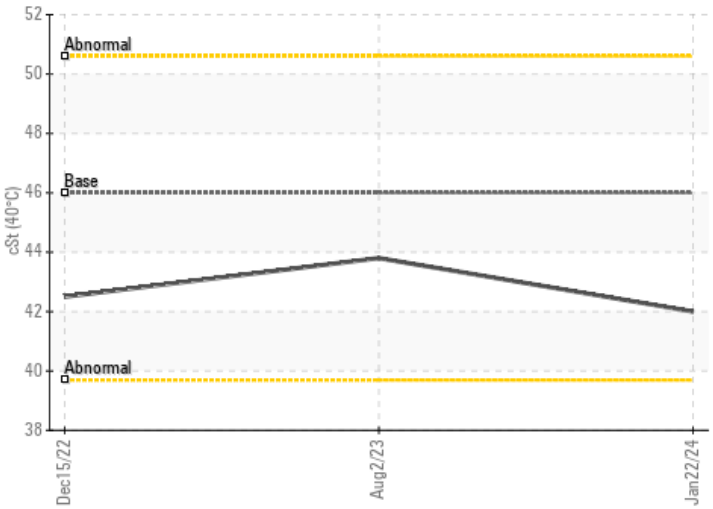
Ferrous Alloys



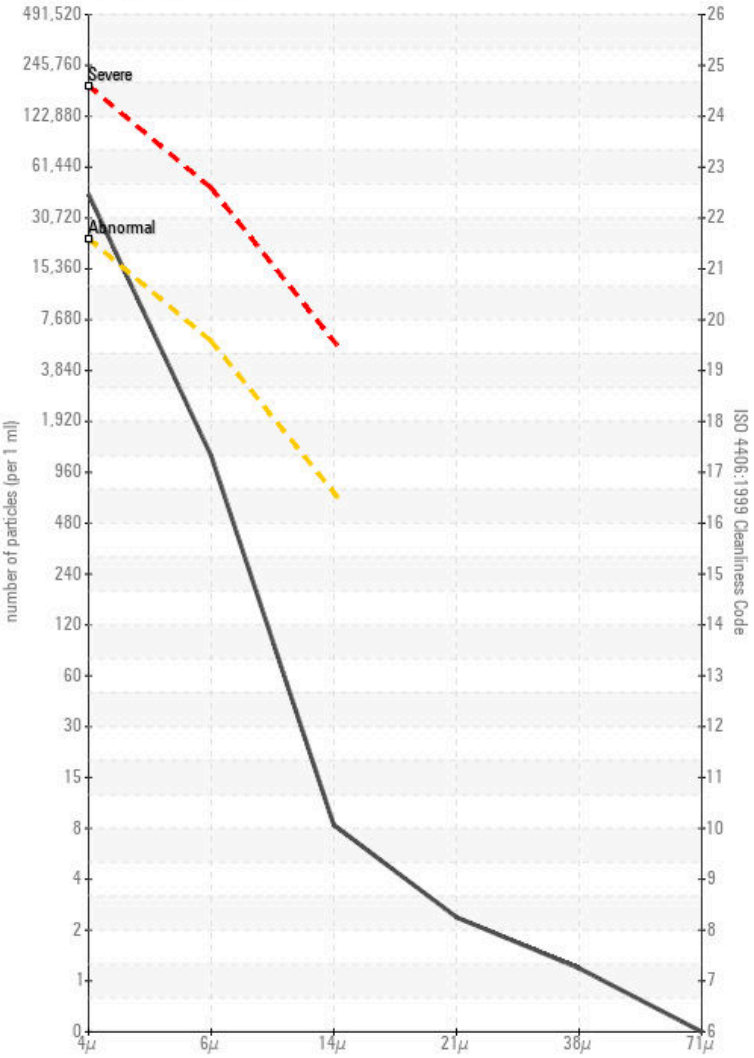
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number