LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR L580 1464-54668 - Hydraulic System

Sample No: LH0258524

Oil Type: DIESEL ENGINE OIL SAE 5W40

OZINGA BROS INC
19001 OLD LAGRANDE RD, SUITE 300
MOKENA, IL
US 60448
Contact: TOM KONIECZNY
tom.konieczny@imcrushingllc.com
T: (847)344-1443
F:

Sample Information

Sample Number		**LH0258524**	LH0212093	---	---
Sample Date		**27 Apr 2024**	13 Dec 2021	---	---
Machine Hours		**5964**	965	---	---
Oil Hours		**5964**	0	---	---
Oil Changed		**Changed**	Changed	---	---
Sample Status		**NORMAL**	NORMAL	---	---

Oil Condition

Visc @ 40°C	cSt	**42.5**	45.7	---	---
Acid Number (AN)	mg KOH/g	**0.90**	1.102	---	---

Contamination

Water	%	**NEG**	NEG	---	---
Particles >4µm		**17739**	14861	---	---
Particles >6µm		**3325**	1767	---	---
Particles >14µm		**43**	48	---	---
ISO 4406:1999 (c)		**21/19/13**	21/18/13	---	---
Silicon	ppm	**2**	2	---	---
Sodium	ppm	**0**	1	---	---
Potassium	ppm	**2**	<1	---	---

Wear Metals

Iron	ppm	**10**	4	---	---
Copper	ppm	**5**	3	---	---
Lead	ppm	**8**	6	---	---
Tin	ppm	**<1**	<1	---	---
Aluminum	ppm	**1**	<1	---	---
Chromium	ppm	**3**	<1	---	---
Molybdenum	ppm	**<1**	<1	---	---
Nickel	ppm	**<1**	0	---	---
Titanium	ppm	**<1**	<1	---	---
Silver	ppm	**0**	<1	---	---
Manganese	ppm	**0**	<1	---	---
Vanadium	ppm	**0**	0	---	---

Additives

Calcium	ppm	**1273**	1410	---	---
Magnesium	ppm	**8**	8	---	---
Zinc	ppm	**737**	694	---	---
Phosphorus	ppm	**636**	602	---	---
Barium	ppm	**0**	0	---	---
Boron	ppm	**0**	5	---	---

Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: OZIMOKLH
Unique No: 11060281
Signed: Don Baldridge
Report Date: 05 Jun 2024

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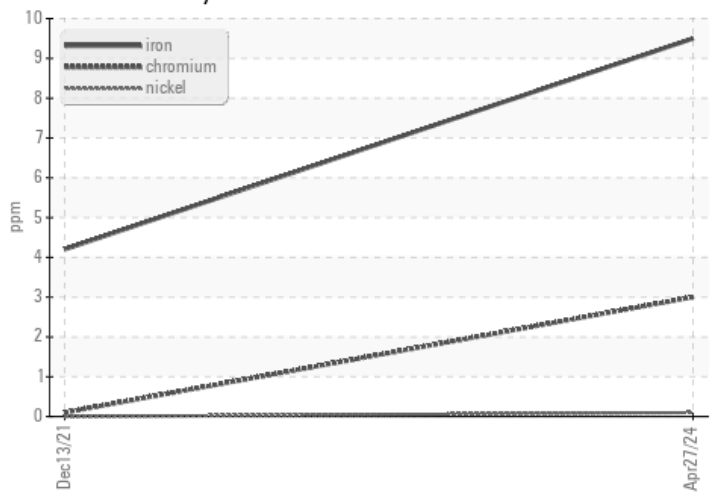
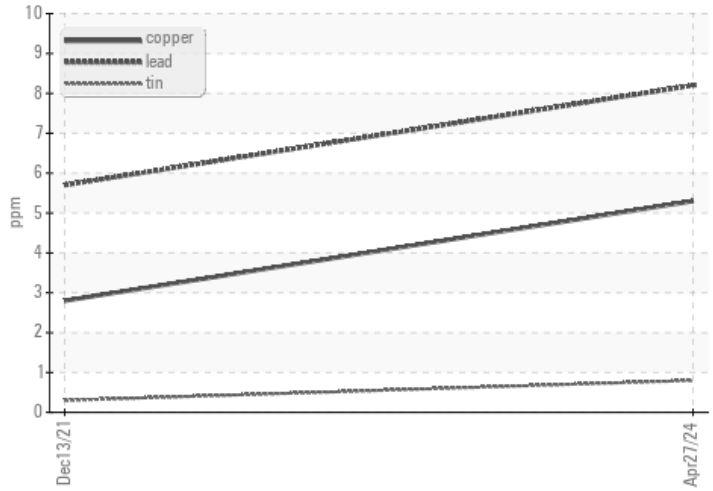
Graphs

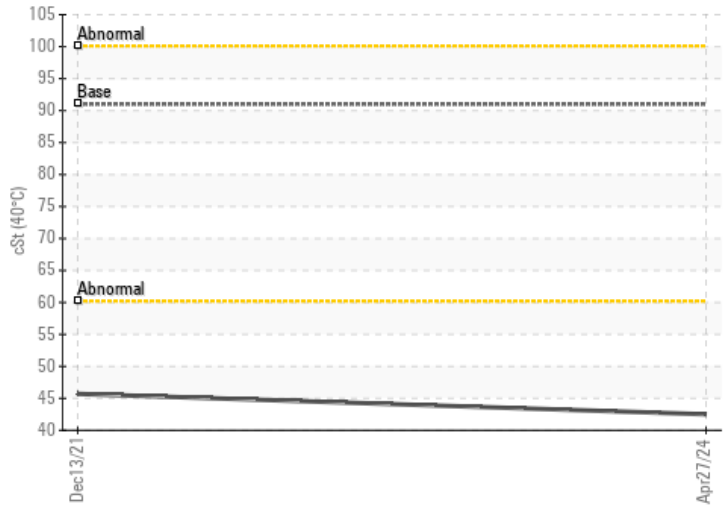
Ferrous Alloys



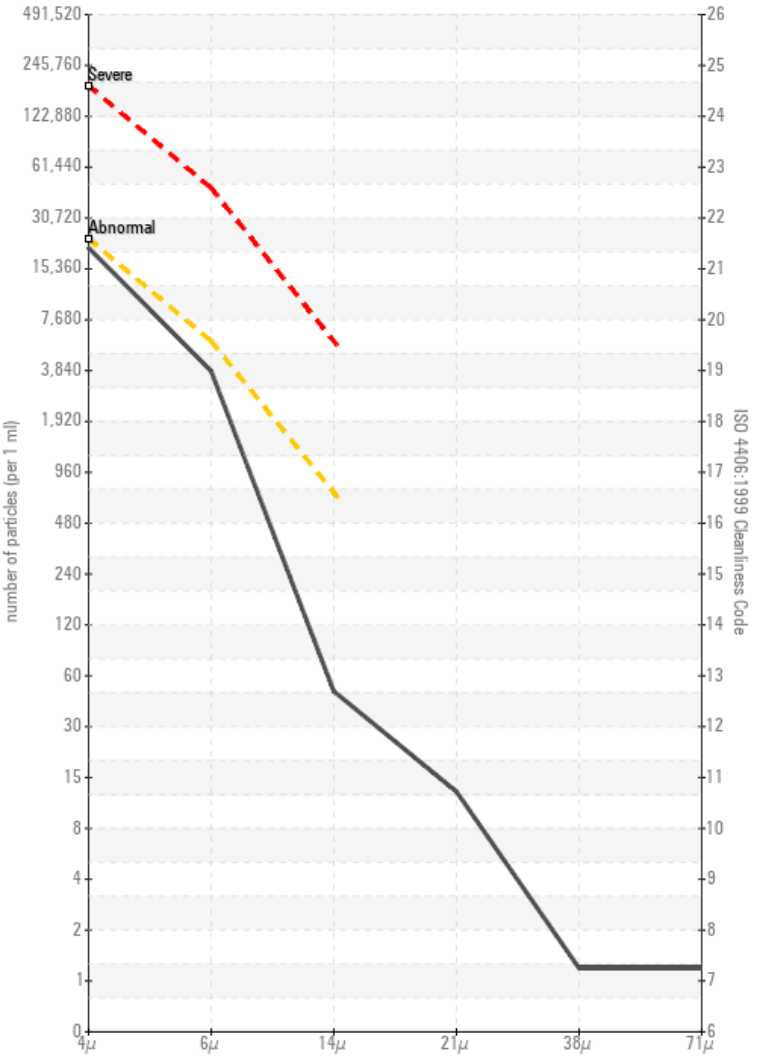
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number