



CONSTRUCTION EQUIPMENT

LIEBHERR L524 020079-659 - HYDRAULIC SYSTEM



Sample No: VCP06152582
Oil Type: CHEVRON DELO GEAR ESI OIL 80W90
Job No:



SAMPLE INFORMATION

Sample Number	VCP06152582	LHMC109984	LHMC81399	---
Sample Date	02 Apr 2024	08 Sep 2016	14 Oct 2015	---
Machine Hours	0	9417	8736	---
Oil Hours	0	0	0	---
Oil Changed	N/A	Changed	Changed	---
Sample Status	ABNORMAL	NORMAL	NORMAL	---

SIMS METAL MANAGEMENT

2500 S. PAULINA
 CHICAGO, IL
 US 60608
 Contact: RYAN WISE
 ryan.wise@simsmm.com
 T:
 F:

OIL CONDITION

Visc @ 40°C	cSt	44.6	35.69	34.44	---
Acid Number (AN)	mg KOH/g	0.52	0.615	0.605	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		63125	615	1043	---
Particles >6µm		12453	335	568	---
Particles >14µm		683	57	96	---
ISO 4406:1999 (c)		23/21/17	16/16/13	17/16/14	---
Silicon	ppm	2	2	1	---
Sodium	ppm	2	1	2	---
Potassium	ppm	2	<1	1	---

Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. Confirm oil type. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

WEAR METALS

Iron	ppm	4	5	4	---
Copper	ppm	2	2	2	---
Lead	ppm	<1	1	2	---
Tin	ppm	<1	<1	0	---
Aluminum	ppm	<1	1	<1	---
Chromium	ppm	<1	2	2	---
Molybdenum	ppm	0	0	0	---
Nickel	ppm	0	0	<1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	0	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	79	461	91	---
Magnesium	ppm	4	24	30	---
Zinc	ppm	459	517	464	---
Phosphorus	ppm	368	427	365	---
Barium	ppm	0	0	0	---
Boron	ppm	0	<1	0	---

Depot: SIMCHIL
Unique No: 10982660
Signed: Don Baldrige
Report Date: 22 Apr 2024

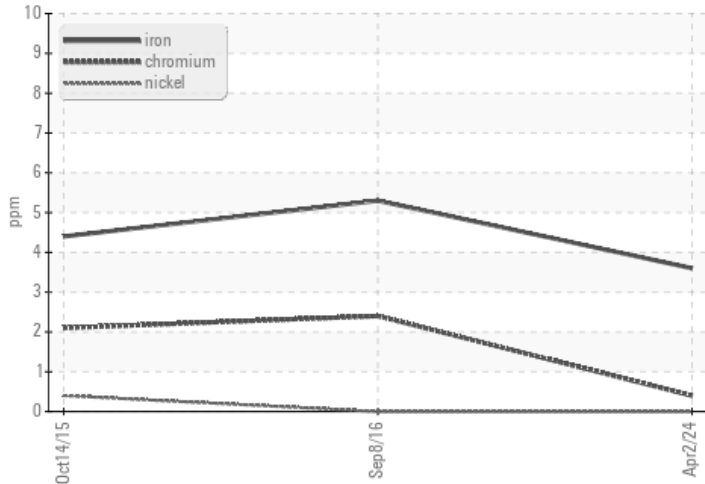


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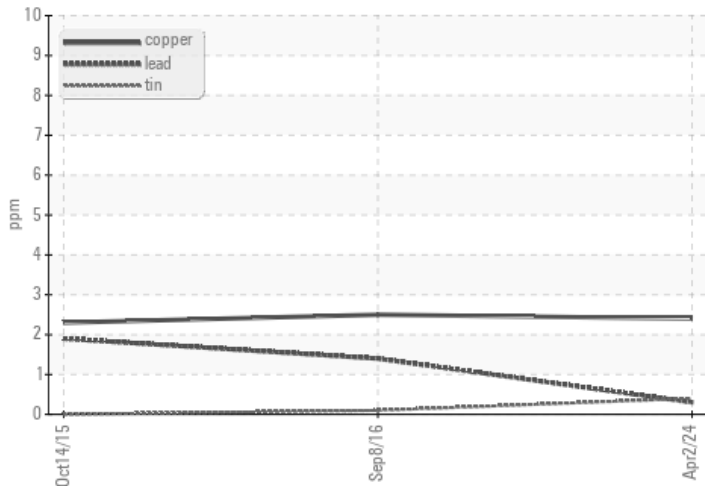


GRAPHS

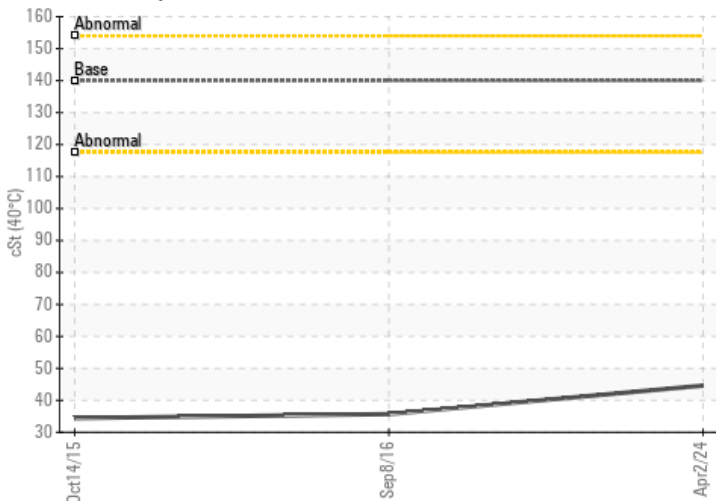
Ferrous Alloys



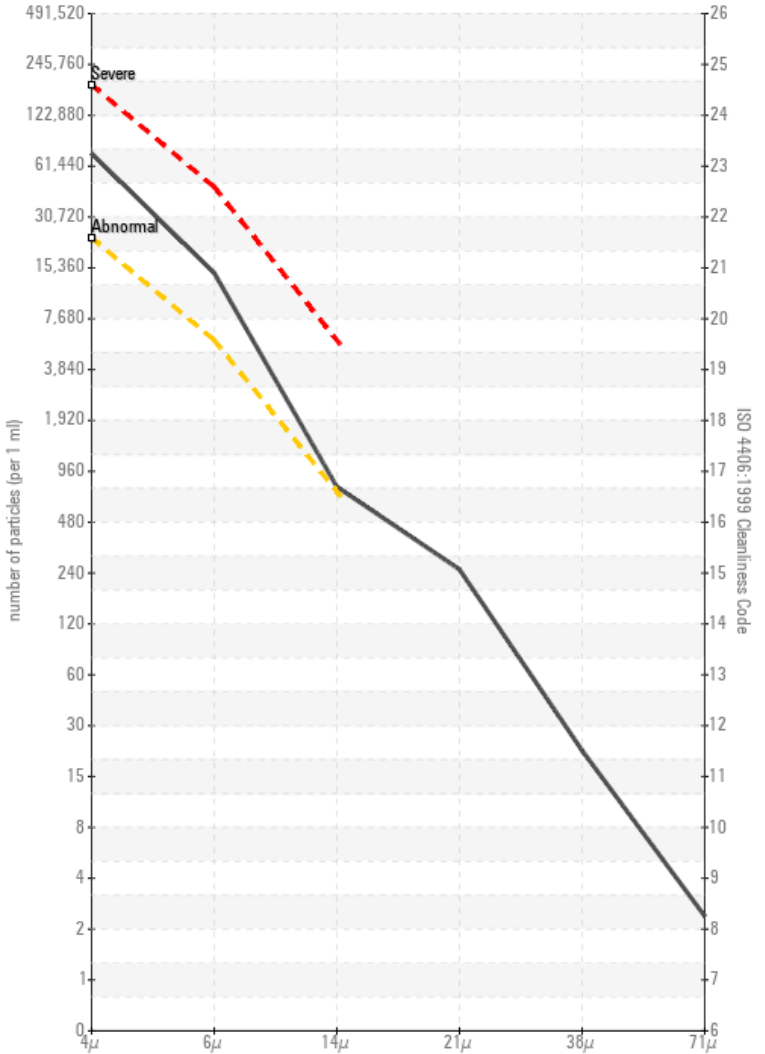
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

