

LIEBHERR

CONSTRUCTION EQUIPMENT



[MARATHON] LIEBHERR HS855 184576 - Hydraulic System

Sample No: LH0296765

Oil Type: AW HYDRAULIC OIL ISO 46

LIEBHERR CANADA LTD.

1015 SUTTON DRIVE
BURLINGTON, ON
CA L7L 5Z8

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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 light amount of silt (particulates < 14 microns in size) present in the oil. The condition of the oil is acceptable for the time in service.



Sample Information

Sample Number	LH0296765	LH0134223	---	---
Sample Date	27 Jun 2024	30 May 2019	---	---
Machine Hours	25032	21032	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Changd	Not Changd	---	---
Sample Status	ATTENTION	ABNORMAL	---	---



Oil Condition

Visc @ 40°C	cSt	● 44.0	● 47.3	---	---
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Contamination

Water	%	NEG	NEG	---	---
Particles >4µm		● 28819	● 53311	---	---
Particles >6µm		● 4956	● 1620	---	---
Particles >14µm		● 316	● 39	---	---
ISO 4406:1999 (c)		22/19/15	23/18/12	---	---
Silicon	ppm	● 4	● 2	---	---
Sodium	ppm	● <1	● <1	---	---
Potassium	ppm	● <1	● 0	---	---



Wear Metals

Iron	ppm	● 6	● 18	---	---
Copper	ppm	● 6	● 5	---	---
Lead	ppm	● <1	● <1	---	---
Tin	ppm	● 0	● 0	---	---
Aluminum	ppm	● <1	● <1	---	---
Chromium	ppm	● 0	0	---	---
Molybdenum	ppm	● 0	● 0	---	---
Nickel	ppm	● <1	<1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	● 0	● <1	---	---
Vanadium	ppm	0	0	---	---



Additives

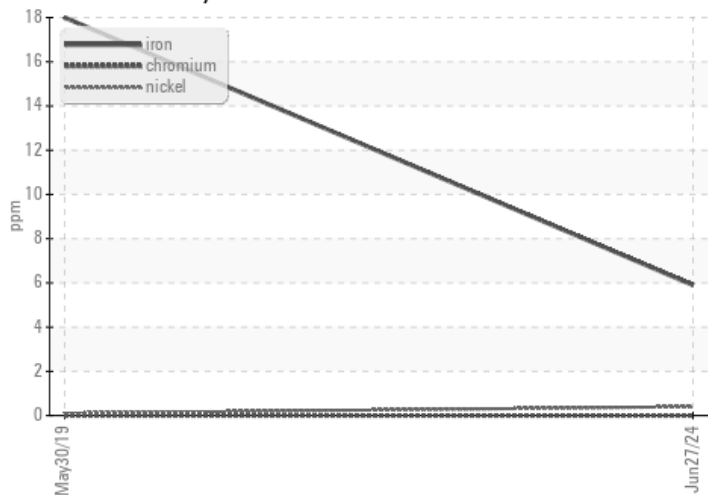
Calcium	ppm	● 29	● 99	---	---
Magnesium	ppm	● 2	● <1	---	---
Zinc	ppm	● 126	● 352	---	---
Phosphorus	ppm	● 297	● 329	---	---
Barium	ppm	● <1	● <1	---	---
Boron	ppm	● <1	● 10	---	---

Depot: LIEMIS
 Unique No: 5802451
 Signed: Kevin Marson
 Report Date: 04 Jul 2024

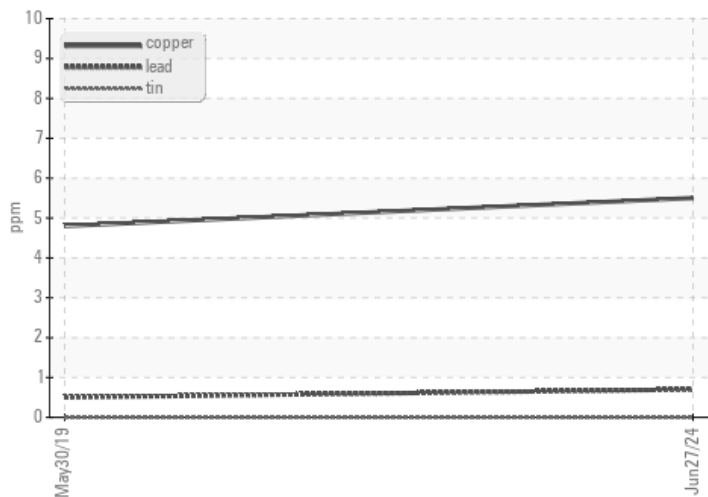


Graphs

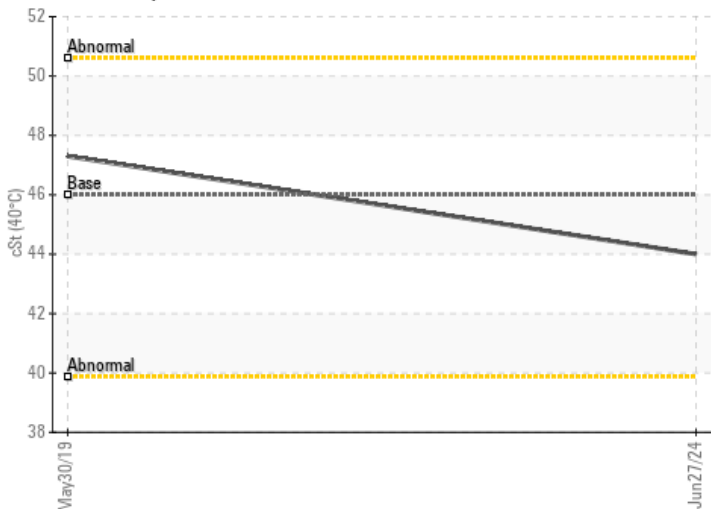
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Filter (Magn: 100 x)

