

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 114790-1253 - Hydraulic System

Sample No: LH0149678

Oil Type: AW HYDRAULIC OIL ISO 46



SAMPLE INFORMATION

Sample Number	LH0149678	LH0191766	LH0185877	LH0162103
Sample Date	30 Jun 2021	09 Apr 2021	17 Dec 2020	30 Jan 2020
Machine Hours	2996	2453	1856	570
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

DAVIS TRADING & SUPPLY LTD.
 110 GRANT STREET
 VANCOUVER, BC
 CA V6A 2J6
 Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	43.0	43.1	43.8	45.2
Acid Number (AN)	mg KOH/g	1.07	---	---	---

T:
F:



CONTAMINATION

Water	%	NEG	0.022	0.049	0.024
Particles >4µm		260	5197	74920	2026
Particles >6µm		40	1441	28613	296
Particles >14µm		3	104	1384	40
ISO 4406:1999 (c)		15/12/9	20/18/14	23/22/18	18/15/12
Silicon	ppm	1	1	1	<1
Sodium	ppm	2	2	2	2
Potassium	ppm	1	<1	2	2

Diagnosis

Resample at the next service interval to monitor. 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.



WEAR METALS

Iron	ppm	32	21	16	8
Copper	ppm	6	5	5	4
Lead	ppm	1	1	1	<1
Tin	ppm	<1	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	<1	<1	0	0
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	0	<1
Silver	ppm	<1	<1	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

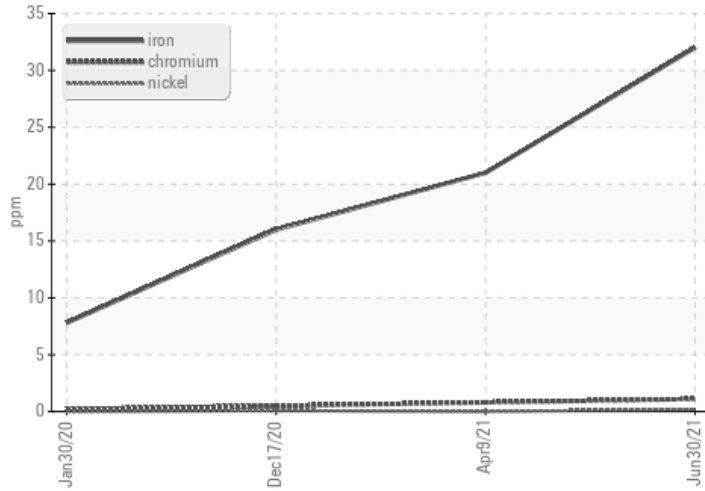
Calcium	ppm	827	820	822	1163
Magnesium	ppm	6	5	4	5
Zinc	ppm	602	576	579	584
Phosphorus	ppm	488	461	473	508
Barium	ppm	<1	<1	<1	<1
Boron	ppm	<1	<1	<1	<1

Depot: DAV110VAN
 Unique No: 5242065
 Signed: Kevin Marson
 Report Date: 05 Jul 2021

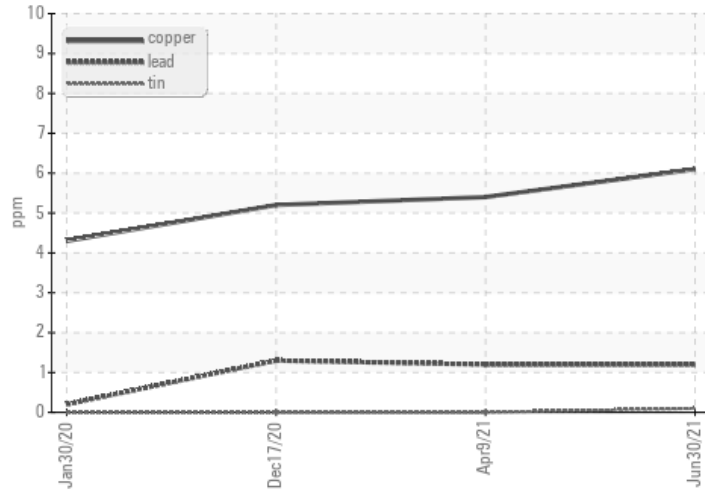


GRAPHS

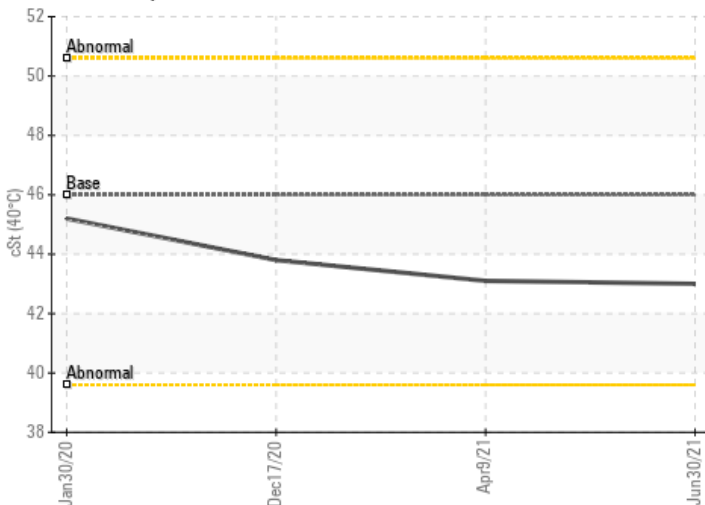
Ferrous Alloys



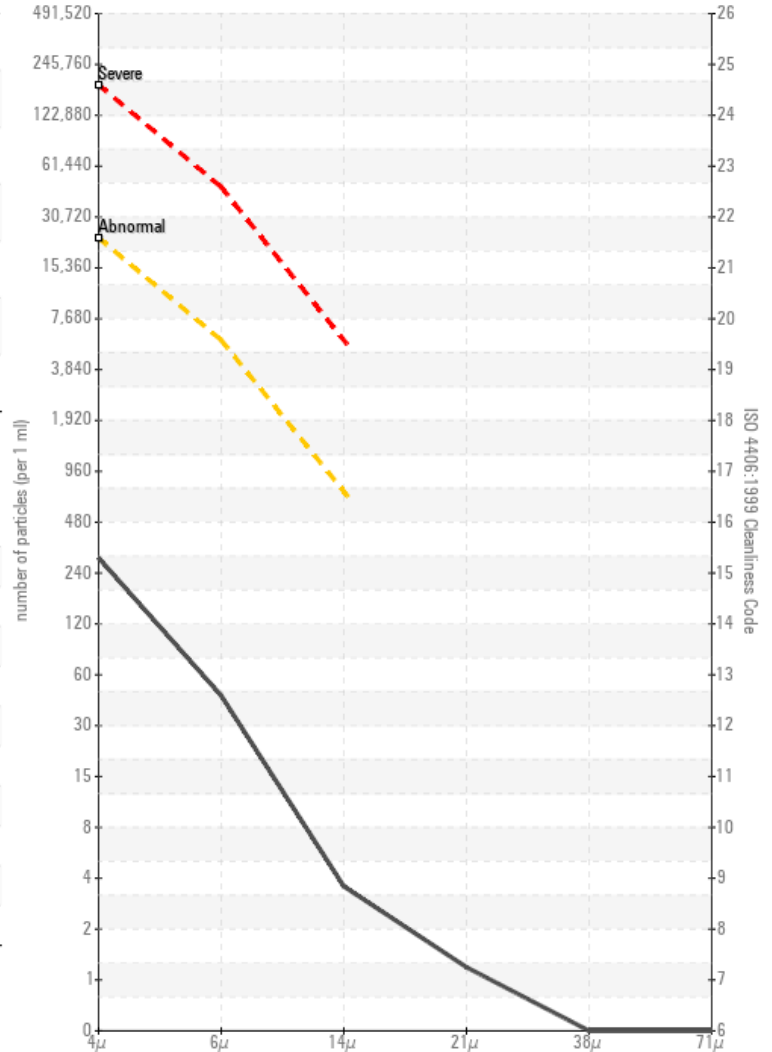
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

