

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH30M 114790-1253 - Hydraulic System

Sample No: LH0215034

Oil Type: SHELL TELLUS T46



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



#### SAMPLE INFORMATION

Sample Number	LH0215034	LH0206473	LH0149678	LH0191766
Sample Date	09 Dec 2021	28 Sep 2021	30 Jun 2021	09 Apr 2021
Machine Hours	3953	3499	2996	2453
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	44.5	44.6	43.0	43.1
Acid Number (AN)	mg KOH/g	---	---	1.07	---

T:  
F:



#### CONTAMINATION

Water	%	NEG	NEG	NEG	0.022
Particles >4µm		3812	7253	260	5197
Particles >6µm		522	2118	40	1441
Particles >14µm		20	143	3	104
ISO 4406:1999 (c)		19/16/11	20/18/14	15/12/9	20/18/14
Silicon	ppm	1	1	1	1
Sodium	ppm	3	2	2	2
Potassium	ppm	3	<1	1	<1

#### 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 condition of the oil is acceptable for the time in service.



#### WEAR METALS

Iron	ppm	32	37	32	21
Copper	ppm	4	5	6	5
Lead	ppm	<1	1	1	1
Tin	ppm	<1	0	<1	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	2	1	1	<1
Molybdenum	ppm	2	3	<1	<1
Nickel	ppm	<1	<1	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	<1	<1	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

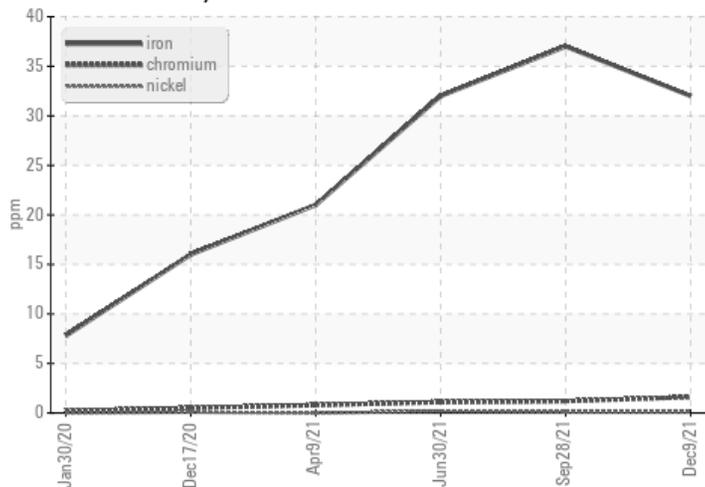
Calcium	ppm	504	680	827	820
Magnesium	ppm	36	49	6	5
Zinc	ppm	666	634	602	576
Phosphorus	ppm	560	544	488	461
Barium	ppm	0	0	<1	<1
Boron	ppm	1	<1	<1	<1

Depot: DAV110VAN  
Unique No: 5330206  
Signed: Kevin Marson  
Report Date: 17 Dec 2021

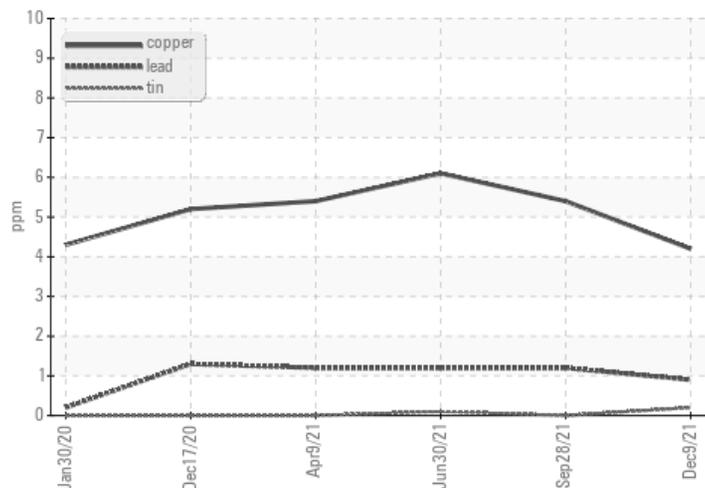


### GRAPHS

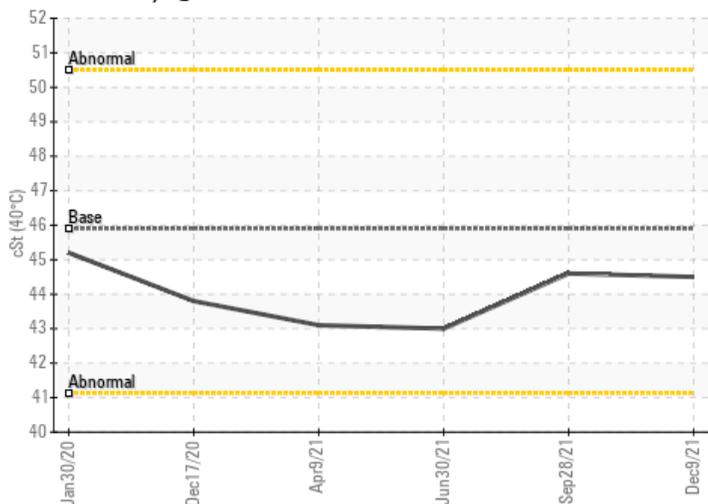
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count

