

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH60C1528-98445 - Hydraulic System

Sample No: LH0267319

Oil Type: LIEBHERR HYDRAULIC HVI



#### SAMPLE INFORMATION

Sample Number	LH0267319	LH0267361	LH0229886	LHMC116813
Sample Date	20 Dec 2023	05 Sep 2023	27 Sep 2022	10 May 2018
Machine Hours	12491	11098	10049	985
Oil Hours	0	0	0	985
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

**DAVIS INDUSTRIAL INC.**  
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 T:  
 F:



#### OIL CONDITION

Visc @ 40°C	cSt	42.9	42.9	42.8	45.4
Acid Number (AN)	mg KOH/g	0.28	0.43	0.52	0.914



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		14516	---	1340	3268
Particles >6µm		3283	---	203	608
Particles >14µm		223	---	16	43
ISO 4406:1999 (c)		21/19/15	---	18/15/11	19/16/13
Silicon	ppm	1	2	<1	<1
Sodium	ppm	<1	1	<1	1
Potassium	ppm	0	2	0	0

#### 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	12	13	5	5
Copper	ppm	2	2	2	2
Lead	ppm	0	0	0	<1
Tin	ppm	<1	0	0	0
Aluminum	ppm	<1	0	<1	0
Chromium	ppm	2	3	2	<1
Molybdenum	ppm	0	0	<1	0
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	0	<1	0	0



#### ADDITIVES

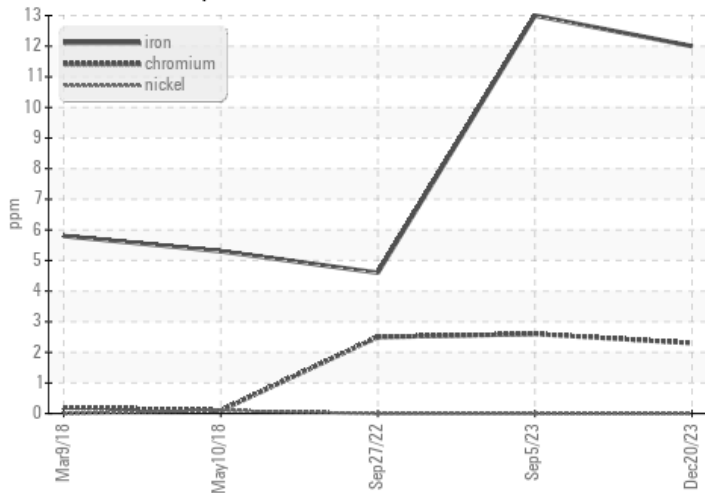
Calcium	ppm	88	97	124	979
Magnesium	ppm	<1	0	<1	4
Zinc	ppm	435	423	450	647
Phosphorus	ppm	335	351	363	565
Barium	ppm	<1	0	0	0
Boron	ppm	0	0	0	<1

**Depot:** DAVLORVA  
**Unique No:** 10859720  
**Signed:** Don Baldrige  
**Report Date:** 04 Feb 2024

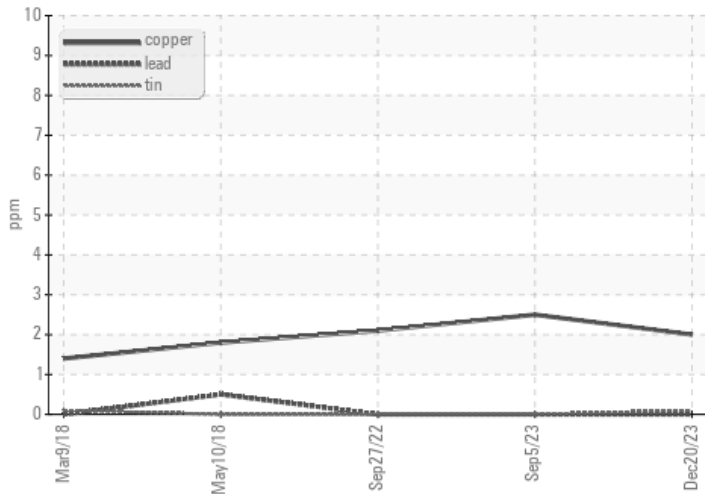


### GRAPHS

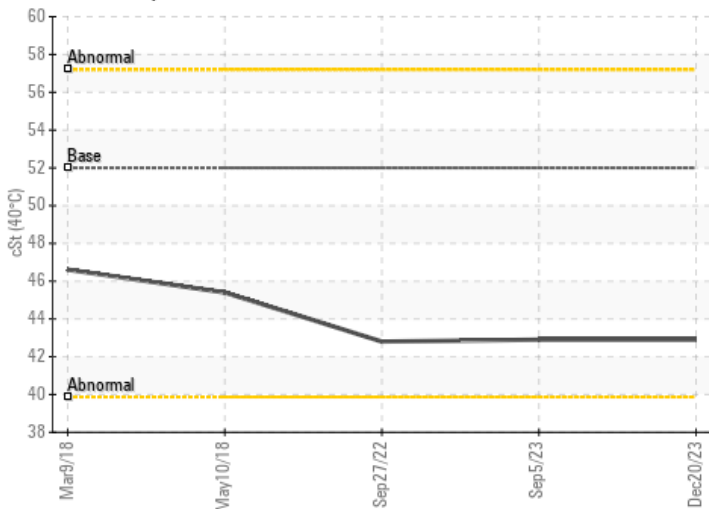
#### Ferrous Alloys



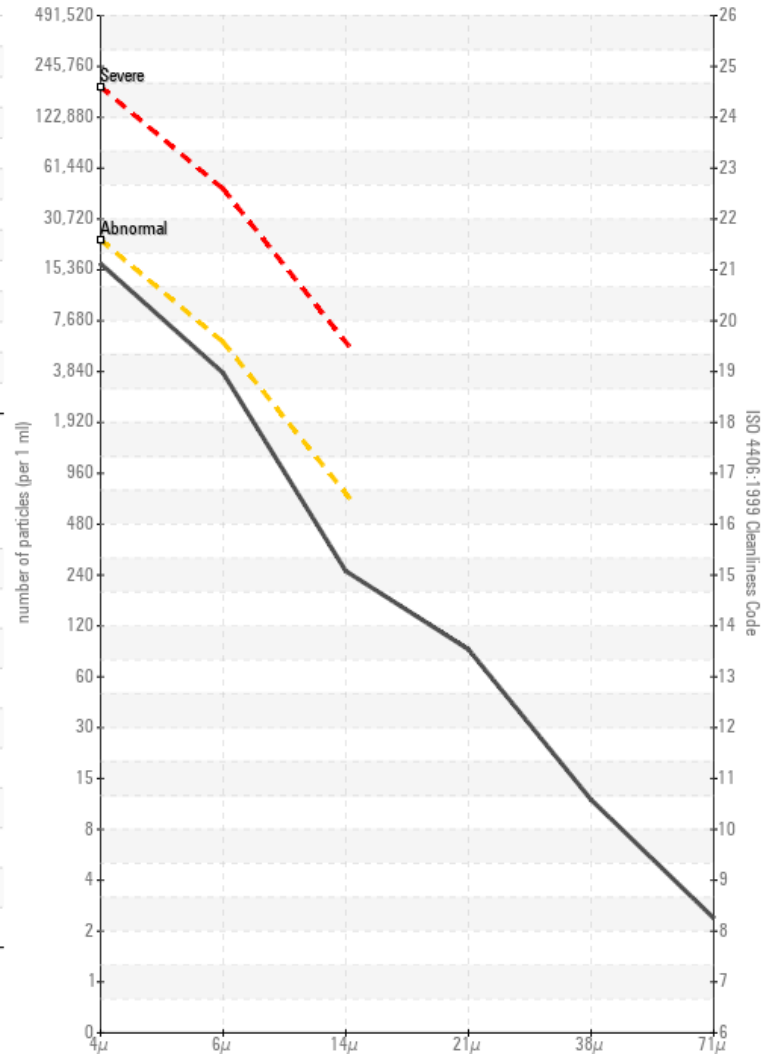
#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count



#### Acid Number

