

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L556 053602-1484 - Hydraulic System

Sample No: LH0277578

Oil Type: PETRO CANADA 10W30



#### Sample Information

Sample Number	LH0277578	LH0215736	LH0274747	LH0270378
Sample Date	11 Jan 2024	13 Oct 2023	29 Aug 2023	14 Jul 2023
Machine Hours	7741	7226	6756	6154
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	ABNORMAL

THOMAS CAVANAGH CONSTRUCTION LTD  
RR # 2, 9094 CAVANAGH ROAD  
ASHTON, ON  
CA K0A 1B0  
Contact: Keith



#### Oil Condition

Visc @ 40°C	cSt	54.5	54.7	55.3	47.9
Visc @ 100°C	cSt	---	---	---	7.8
Viscosity Index (VI)	Scale	---	---	---	131

T: (613)257-4995  
F: (613)253-0071



#### Contamination

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		6312	13873	14881	11184
Particles >6µm		311	2170	1759	934
Particles >14µm		33	97	92	39
ISO 4406:1999 (c)		20/15/12	21/18/14	21/18/14	21/17/12
Silicon	ppm	10	9	8	10
Sodium	ppm	1	1	1	1
Potassium	ppm	2	16	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 condition of the oil is acceptable for the time in service.



#### Wear Metals

Iron	ppm	9	8	8	12
Copper	ppm	3	2	2	3
Lead	ppm	3	3	3	5
Tin	ppm	<1	0	0	0
Aluminum	ppm	5	4	3	5
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	44	44	43	25
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



#### Additives

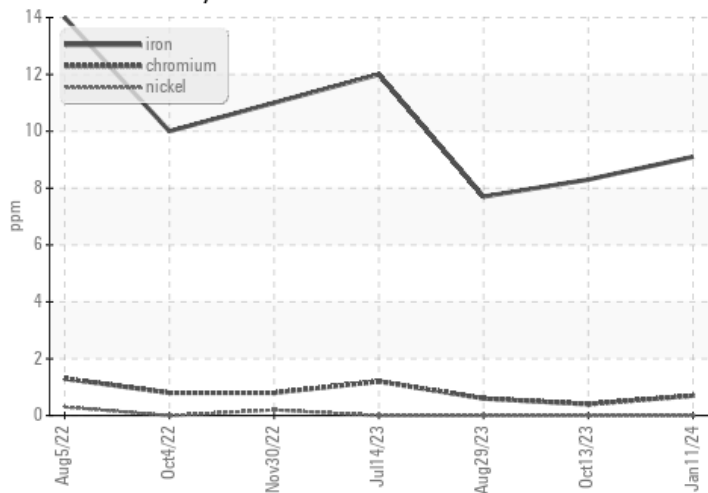
Calcium	ppm	1010	994	994	876
Magnesium	ppm	720	716	726	415
Zinc	ppm	1087	1102	1118	999
Phosphorus	ppm	968	965	1020	896
Barium	ppm	0	<1	<1	<1
Boron	ppm	<1	1	1	1

Depot: CAVASH  
Unique No: 5710497  
Signed: Wes Davis  
Report Date: 18 Jan 2024

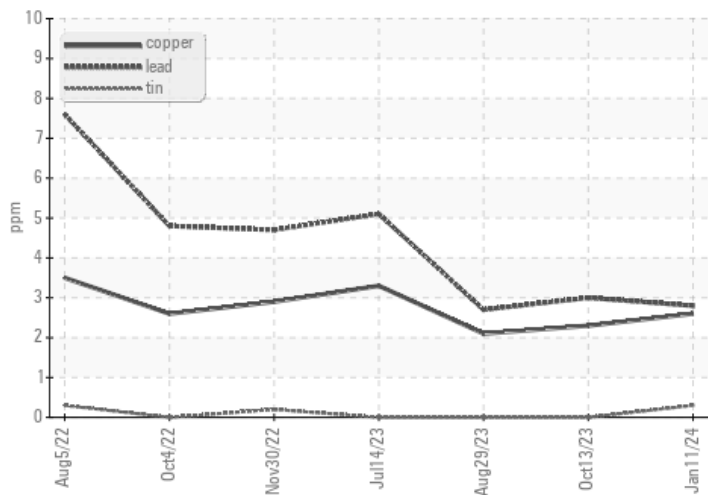


### Graphs

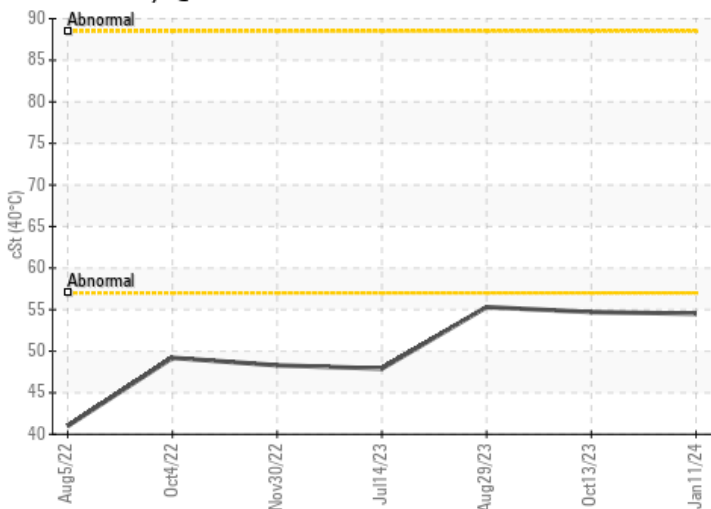
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count

