

LIEBHERR

CONSTRUCTION EQUIPMENT



54868 - Hydraulic System

Sample No: LH0260724

Oil Type: BIODRAN/TOTAL 46



SAMPLE INFORMATION

Sample Number	LH0260724	---	---	---
Sample Date	28 Aug 2023	---	---	---
Machine Hours	997	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---

Delsan - American Iron and Metal
 2187 Montee Masson
 Laval, QC
 CA H7B 0A6
 Contact: MANNY MARQUES
 mmarques@delsan-aim.com
 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	● 43.8	---	---	---
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CONTAMINATION

Particles >4µm		● 4192	---	---	---
Particles >6µm		● 844	---	---	---
Particles >14µm		● 43	---	---	---
ISO 4406:1999 (c)		19/17/13	---	---	---
Silicon	ppm	● 14	---	---	---
Sodium	ppm	● 3	---	---	---
Potassium	ppm	● 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	● 42	---	---	---
Copper	ppm	● 4	---	---	---
Lead	ppm	● 6	---	---	---
Tin	ppm	● <1	---	---	---
Aluminum	ppm	● 1	---	---	---
Chromium	ppm	● 5	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● <1	---	---	---
Titanium	ppm	● 0	---	---	---
Silver	ppm	● 2	---	---	---
Manganese	ppm	● <1	---	---	---
Vanadium	ppm	● 0	---	---	---



ADDITIVES

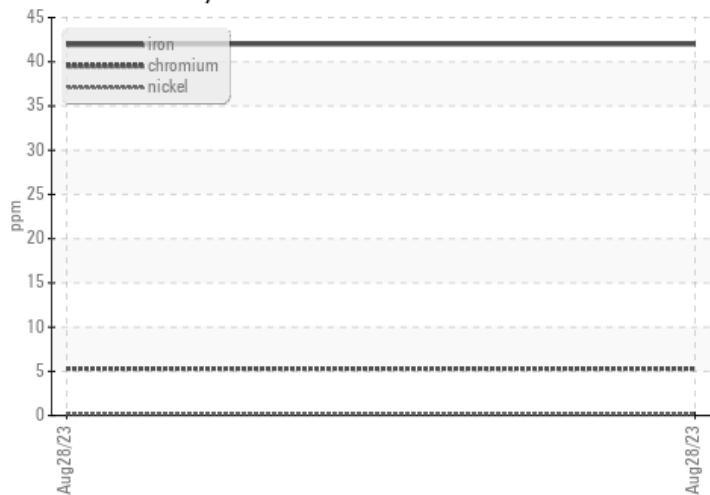
Calcium	ppm	● 151	---	---	---
Magnesium	ppm	● 4	---	---	---
Zinc	ppm	● 201	---	---	---
Phosphorus	ppm	● 394	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 1	---	---	---

Depot: DEL782MON
Unique No: 5632213
Signed: Kevin Marson
Report Date: 30 Aug 2023

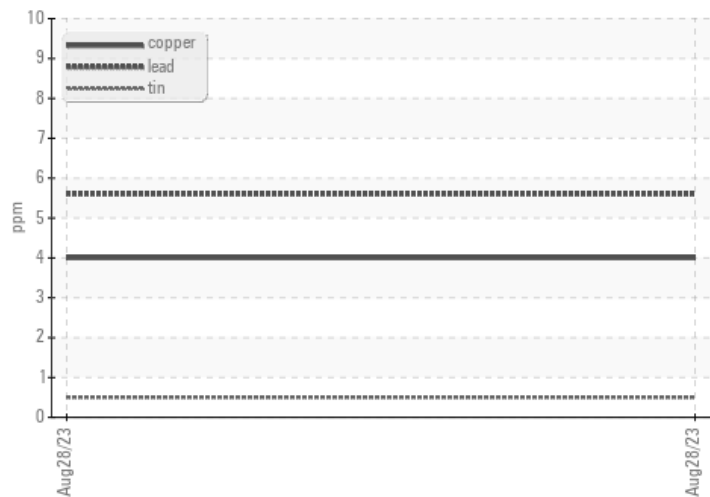


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

