

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934C044096 - Hydraulic System

Sample No: LH0260455

Oil Type: AW HYDRAULIC OIL ISO 46



Rypac Aluminum Recycling
 11849 Tannery Road
 Surrey, BC
 CA V3V 3W8
 Contact: Craig Merritt
 rypac2@shaw.ca
 T:
 F:



SAMPLE INFORMATION

Sample Number	LH0260455	LH0226692	LH0173118	LH0140290
Sample Date	20 Jun 2023	26 Apr 2022	24 Jun 2020	07 May 2019
Machine Hours	28300	26107	22582	20668
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	ATTENTION	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	43.2	43.8	42.7	43.5
		●	●	●	●



CONTAMINATION

Particles >4µm		● 3391	● 13193	● 24846	● 10600
Particles >6µm		● 580	● 2366	● 5782	● 1618
Particles >14µm		● 38	● 161	● 550	● 95
ISO 4406:1999 (c)		19/16/12	21/18/15	22/20/16	21/18/14
Silicon	ppm	● <1	● <1	● <1	● <1
Sodium	ppm	● <1	● <1	● 0	● 1
Potassium	ppm	● <1	● <1	● <1	● <1



WEAR METALS

Iron	ppm	● 11	● 17	● 18	● 13
Copper	ppm	● 2	● 3	● 4	● 3
Lead	ppm	● <1	● 1	● <1	● <1
Tin	ppm	● 0	● <1	● 0	● 0
Aluminum	ppm	● <1	● <1	● <1	● 0
Chromium	ppm	● 1	● 2	● 2	● 2
Molybdenum	ppm	● 0	● 0	● 0	● 0
Nickel	ppm	● 0	● <1	● 0	● <1
Titanium	ppm	● 0	● 0	● <1	● 0
Silver	ppm	● 0	● 0	● 0	● 0
Manganese	ppm	● 0	● <1	● <1	● <1
Vanadium	ppm	● 0	● 0	● 0	● 0



ADDITIVES

Calcium	ppm	● 40	● 40	● 42	● 46
Magnesium	ppm	● 1	● <1	● <1	● 1
Zinc	ppm	● 412	● 386	● 391	● 405
Phosphorus	ppm	● 353	● 348	● 346	● 353
Barium	ppm	● 0	● 0	● <1	● 0
Boron	ppm	● <1	● <1	● <1	● 0

Diagnosis

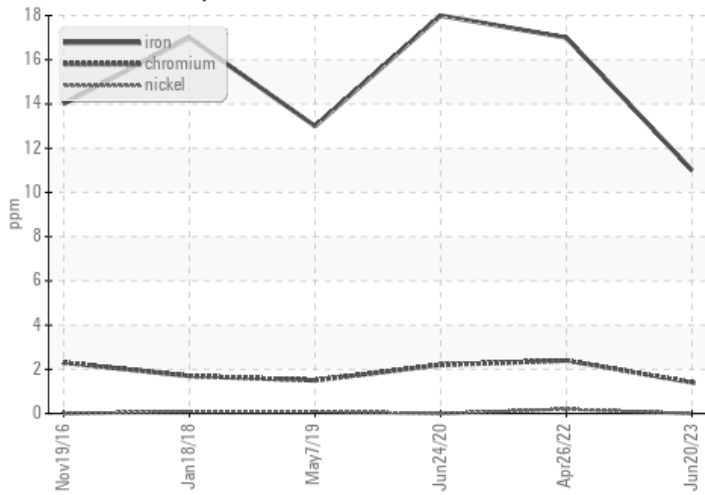
Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The condition of the oil is acceptable for the time in service.

Depot: RYPSUR
 Unique No: 5604859
 Signed: Kevin Marson
 Report Date: 05 Jul 2023

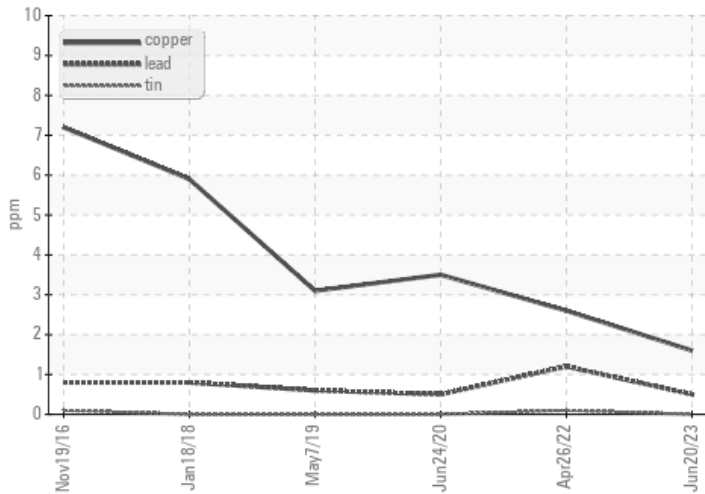


GRAPHS

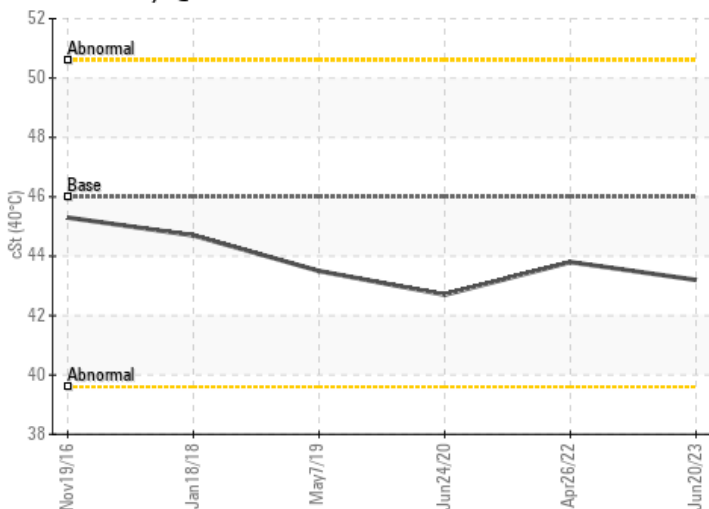
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

