

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934C 057446-1007 - Hydraulic System

Sample No: LH0281186

Oil Type: KLONDIKE AW 46



ABC RECYCLING
8081 MEADOW AVE.
BURNABY, BC
CA V3N 2V9

Contact: John Anderson
john.anderson@abcrcycling.com
T: (778)988-9944
F:



SAMPLE INFORMATION

Sample Number	LH0281186	LH0213842	LH0213847	LH0213879
Sample Date	22 Jan 2024	11 Jul 2023	24 Apr 2023	02 Dec 2022
Machine Hours	26482	25673	25419	25052
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	36.3	42.0	42.1	41.0
-------------	-----	------	------	------	------



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		1302	5258	4338	13634
Particles >6µm		88	969	595	963
Particles >14µm		11	77	25	47
ISO 4406:1999 (c)		18/14/11	20/17/13	19/16/12	21/17/13
Silicon	ppm	<1	<1	<1	<1
Sodium	ppm	<1	<1	<1	1
Potassium	ppm	<1	<1	<1	<1



WEAR METALS

Iron	ppm	4	5	9	7
Copper	ppm	2	3	6	6
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	0	<1
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	<1	0	0	0
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	49	56	46	41
Magnesium	ppm	6	2	1	1
Zinc	ppm	275	408	426	404
Phosphorus	ppm	225	347	381	364
Barium	ppm	0	0	0	0
Boron	ppm	<1	<1	<1	<1

Diagnosis

Resample at the next service interval to monitor. The fluid was specified as KLONDIKE AW 46, however, a fluid match indicates that this fluid is ISO 32 AW Hydraulic Oil. Please confirm the oil type and grade on your next sample. 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. Viscosity of sample indicates oil is within ISO 32 range, advise investigate. The condition of the oil is acceptable for the time in service.

Depot: ABCBUR
Unique No: 5733397
Signed: Kevin Marson
Report Date: 20 Feb 2024

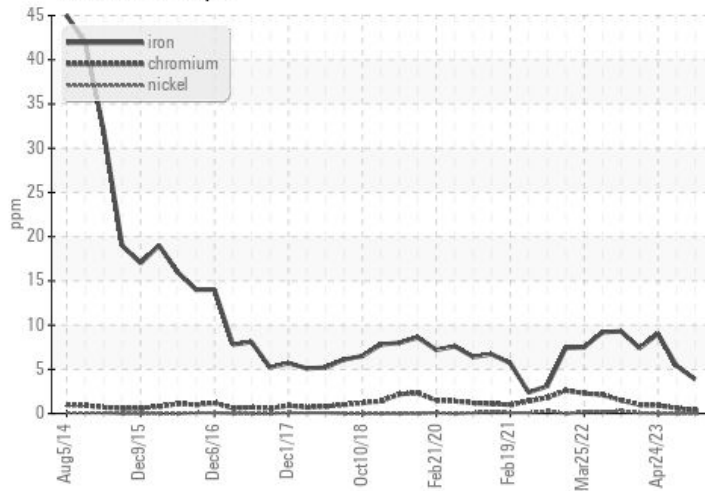
LIEBHERR

CONSTRUCTION EQUIPMENT

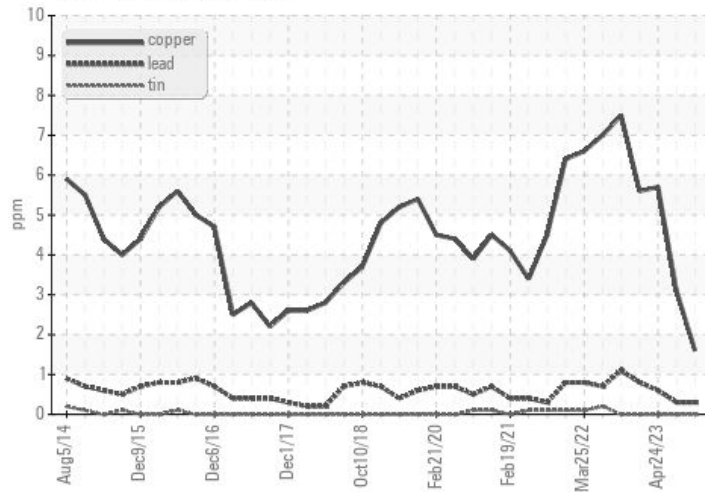


GRAPHS

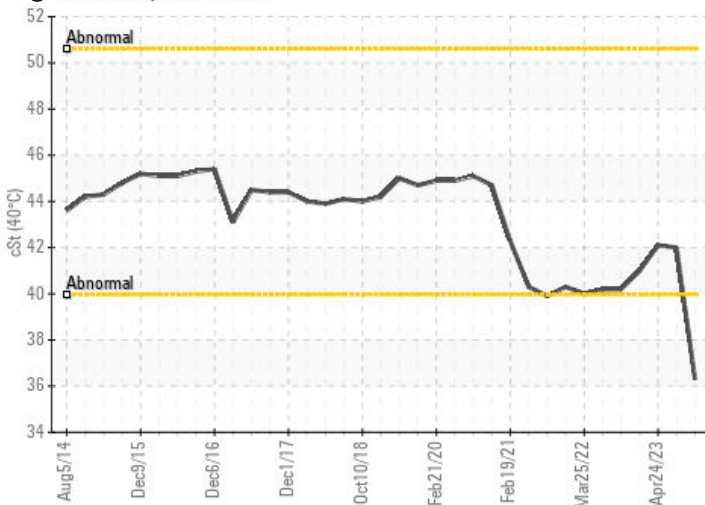
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

