

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934C 063551 - Hydraulic System

Sample No: LH0284062

Oil Type: PETRO CANADA HYDREX AW 46



ABC RECYCLING
 750C JACKSON RD
 NANAIMO, BC
 CA V9X 1J2
 Contact: Jordie Richmond
 jordie.richmond@abcrecycling.com
 T: (250)202-8235
 F:



SAMPLE INFORMATION

Sample Number	LH0284062	LH0260522	LH0260527	LH0218529
Sample Date	18 Mar 2024	15 Nov 2023	30 Jun 2023	20 Mar 2023
Machine Hours	19058	18492	17789	17189
Oil Hours	500	1824	1721	1644
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	ATTENTION	ABNORMAL	ABNORMAL	ABNORMAL



OIL CONDITION

Visc @ 40°C	cSt	44.7	45.1	44.9	45.3
		●	●	●	●



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		● 25590	● 12736	● 4880	● 1970
Particles >6µm		● 2088	● 805	● 389	● 284
Particles >14µm		● 31	● 18	● 14	● 28
ISO 4406:1999 (c)		22/18/12	21/17/11	19/16/11	18/15/12
Silicon	ppm	● 0	● 2	● 1	● 1
Sodium	ppm	● 1	● 3	● 2	● 3
Potassium	ppm	● 1	● 2	● 2	● 1



WEAR METALS

Iron	ppm	● 17	● 29	● 26	● 29
Copper	ppm	● 2	● 4	● 4	● 4
Lead	ppm	● 0	● 1	● <1	● 1
Tin	ppm	● 0	● 0	● 0	● 0
Aluminum	ppm	● <1	● <1	● <1	● <1
Chromium	ppm	● 5	● 8	● 7	● 8
Molybdenum	ppm	● 0	● 0	● <1	● <1
Nickel	ppm	● 0	● <1	● 0	● <1
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	● 0	● 0	● <1	● <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	● 78	● 82	● 83	● 89
Magnesium	ppm	● 13	● 6	● 8	● 6
Zinc	ppm	● 410	● 364	● 360	● 351
Phosphorus	ppm	● 341	● 341	● 361	● 361
Barium	ppm	● 0	● <1	● 0	● 0
Boron	ppm	● <1	● <1	● <1	● <1

Diagnosis

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The condition of the oil is acceptable for the time in service.

Depot: ABCNAN
 Unique No: 5749469
 Signed: Kevin Marson
 Report Date: 26 Mar 2024

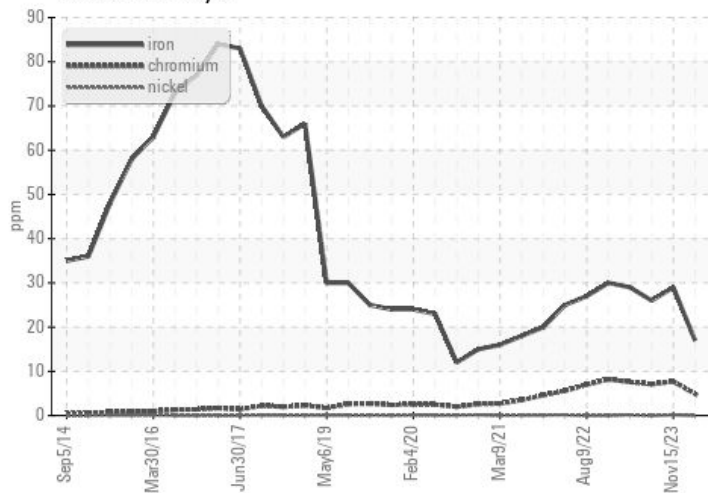
LIEBHERR

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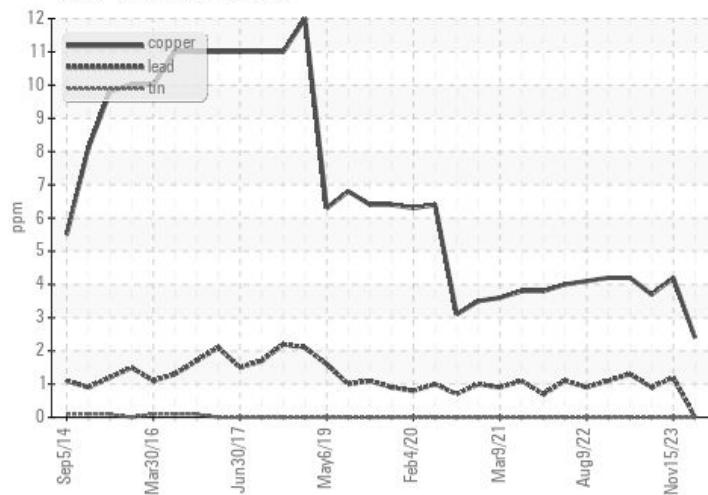


GRAPHS

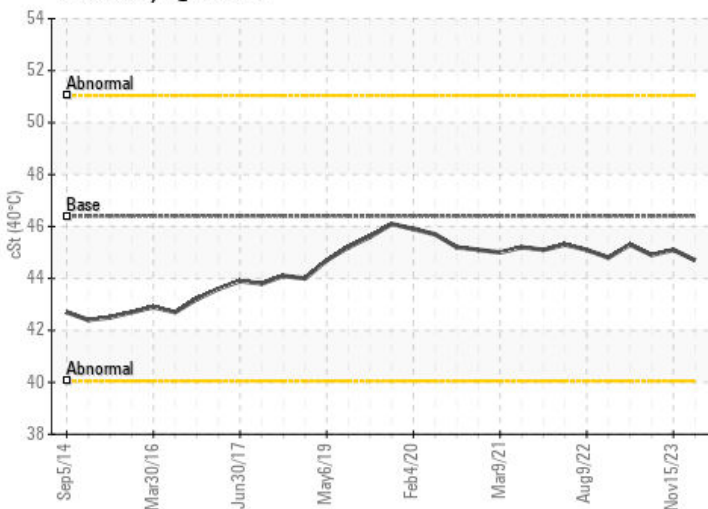
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

