

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934C063551 - Hydraulic System

Sample No: LH0260522

Oil Type: PETRO CANADA HYDREX AW 46



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



SAMPLE INFORMATION

Sample Number	LH0260522	LH0260527	LH0218529	LH0224859
Sample Date	15 Nov 2023	30 Jun 2023	20 Mar 2023	18 Nov 2022
Machine Hours	18492	17789	17189	16666
Oil Hours	1824	1721	1644	1612
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL



OIL CONDITION

Visc @ 40°C	cSt	45.1	44.9	45.3	44.8



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		12736	4880	1970	11143
Particles >6µm		805	389	284	701
Particles >14µm		18	14	28	17
ISO 4406:1999 (c)		21/17/11	19/16/11	18/15/12	21/17/11
Silicon	ppm	2	1	1	1
Sodium	ppm	3	2	3	4
Potassium	ppm	2	2	1	1



WEAR METALS

Iron	ppm	29	26	29	30
Copper	ppm	4	4	4	4
Lead	ppm	1	<1	1	1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	8	7	8	8
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	82	83	89	93
Magnesium	ppm	6	8	6	7
Zinc	ppm	364	360	351	343
Phosphorus	ppm	341	361	361	358
Barium	ppm	<1	0	0	0
Boron	ppm	<1	<1	<1	<1

Diagnosis

We recommend an early resample to monitor this condition. Chromium ppm levels are abnormal. Ring wear is indicated. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. NOTE: An increase in the particle count is noted. The condition of the oil is acceptable for the time in service.

Depot: ABCNAN
 Unique No: 5682640
 Signed: Kevin Marson
 Report Date: 22 Nov 2023

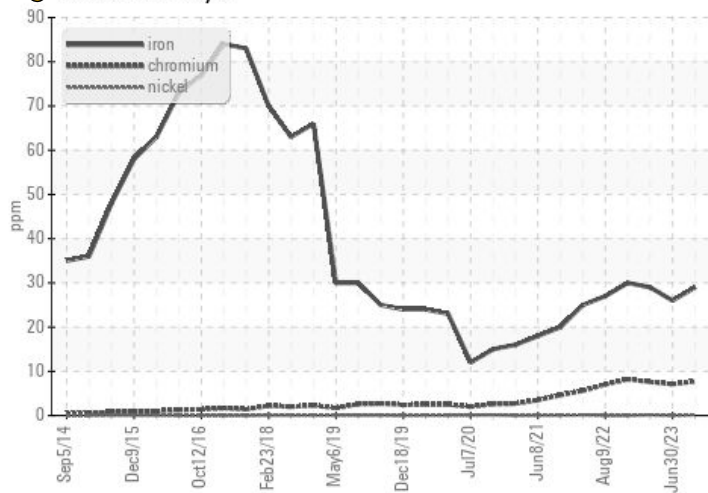
LIEBHERR

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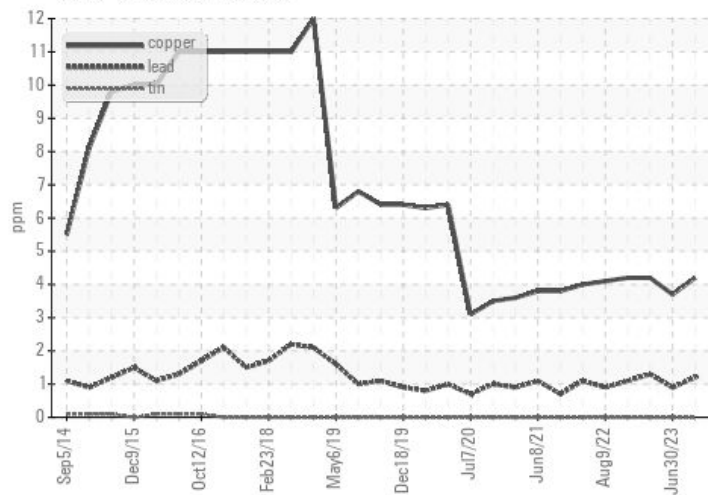


GRAPHS

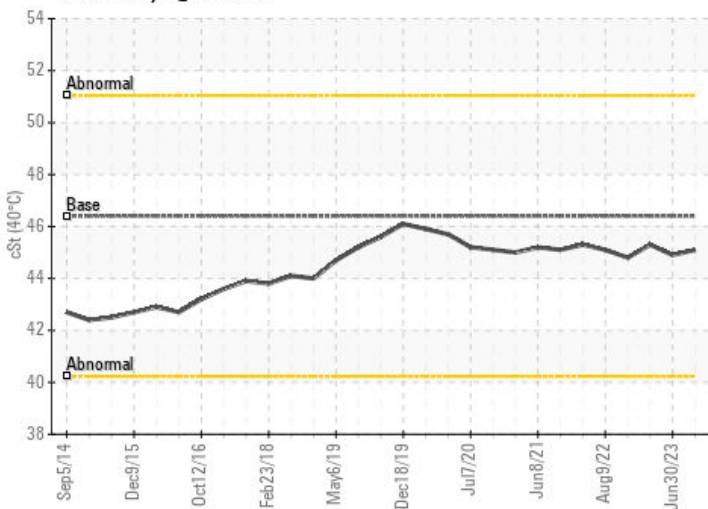
● Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

