

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934C 063551 - Hydraulic System

Sample No: LH0260527

Oil Type: PETRO CANADA HYDREX AW 46



SAMPLE INFORMATION

Sample Number	LH0260527	LH0218529	LH0224859	LH0226645
Sample Date	30 Jun 2023	20 Mar 2023	18 Nov 2022	09 Aug 2022
Machine Hours	17789	17189	16666	16175
Oil Hours	1721	1644	1612	1775
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

ABC RECYCLING

750C JACKSON RD

NANAIMO, BC

CA V9X 1J2

Contact: Jordie Richmond

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T: (250)202-8235

F:



OIL CONDITION

Visc @ 40°C	cSt	44.9	45.3	44.8	45.1



CONTAMINATION

Particles >4µm		4880	1970	11143	6615
Particles >6µm		389	284	701	746
Particles >14µm		14	28	17	20
ISO 4406:1999 (c)		19/16/11	18/15/12	21/17/11	20/17/11
Silicon	ppm	1	1	1	1
Sodium	ppm	2	3	4	3
Potassium	ppm	2	1	1	1



WEAR METALS

Iron	ppm	26	29	30	27
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	7	8	8	7
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	83	89	93	91
Magnesium	ppm	8	6	7	7
Zinc	ppm	360	351	343	343
Phosphorus	ppm	361	361	358	331
Barium	ppm	0	0	0	<1
Boron	ppm	<1	<1	<1	<1

Diagnosis

We recommend an early resample to monitor this condition. Chromium ppm levels are abnormal. All other 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: ABCNAN

Unique No: 5605614

Signed: Kevin Marson

Report Date: 10 Jul 2023

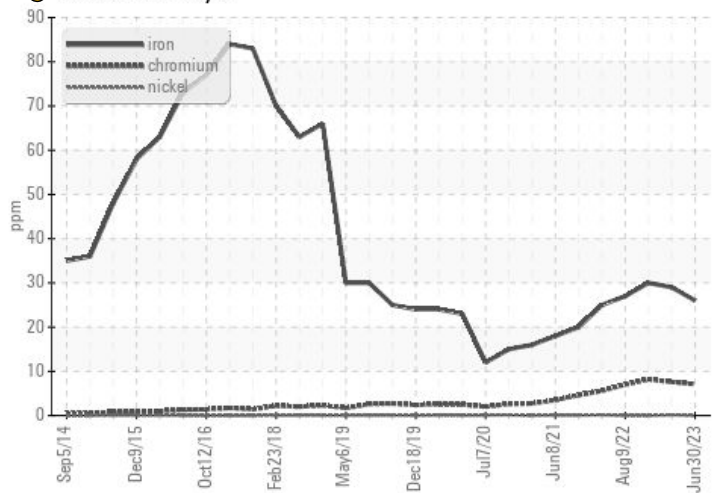
LIEBHERR

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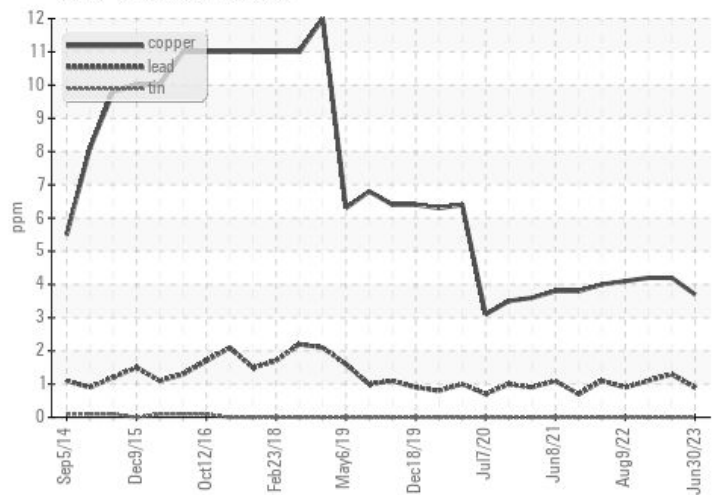


GRAPHS

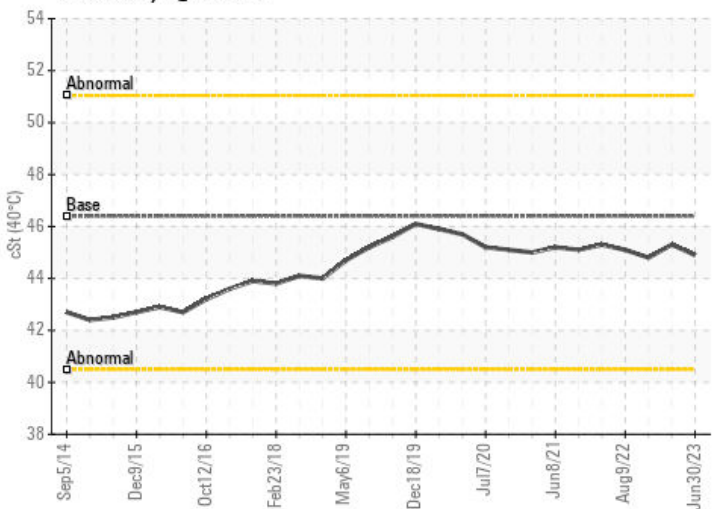
● Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

