

LIEBHERR

CONSTRUCTION EQUIPMENT



116431-1217 - Hydraulic System

Sample No: LH0239240

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



SAMPLE INFORMATION

Sample Number	LH0239240	LH0221650	LH	LH0215732
Sample Date	29 Aug 2022	06 Jun 2022	26 Jan 2022	12 Dec 2021
Machine Hours	6053	5561	4903	4729
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Changed	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

American Iron and Metal

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OIL CONDITION

Visc @ 40°C	cSt	42.2	42.2	41.5	41.4
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CONTAMINATION

Particles >4µm		1236	15198	3873	4308
Particles >6µm		164	1730	464	382
Particles >14µm		7	23	23	14
ISO 4406:1999 (c)		17/15/10	21/18/12	19/16/12	19/16/11
Silicon	ppm	1	2	2	2
Sodium	ppm	2	2	3	3
Potassium	ppm	11	0	1	1



WEAR METALS

PQ		12	0	5	8
Iron	ppm	105	81	97	103
Copper	ppm	4	4	5	6
Lead	ppm	1	<1	1	1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	1	1	1	1
Molybdenum	ppm	0	<1	0	0
Nickel	ppm	<1	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	2	2	2	2
Vanadium	ppm	<1	0	<1	<1



ADDITIVES

Calcium	ppm	655	747	1083	1185
Magnesium	ppm	4	5	6	7
Zinc	ppm	728	721	709	781
Phosphorus	ppm	596	616	610	682
Barium	ppm	0	0	0	0
Boron	ppm	<1	2	<1	1

Diagnosis

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: BAKOTT
Unique No: 5448893
Signed: Kevin Marson
Report Date: 31 Aug 2022

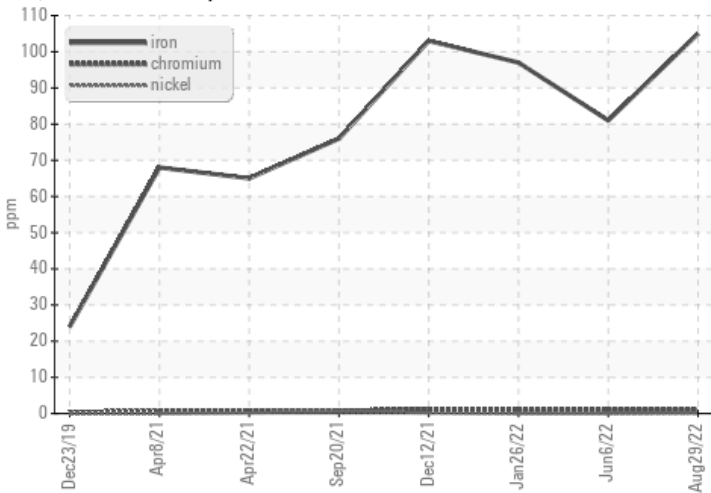
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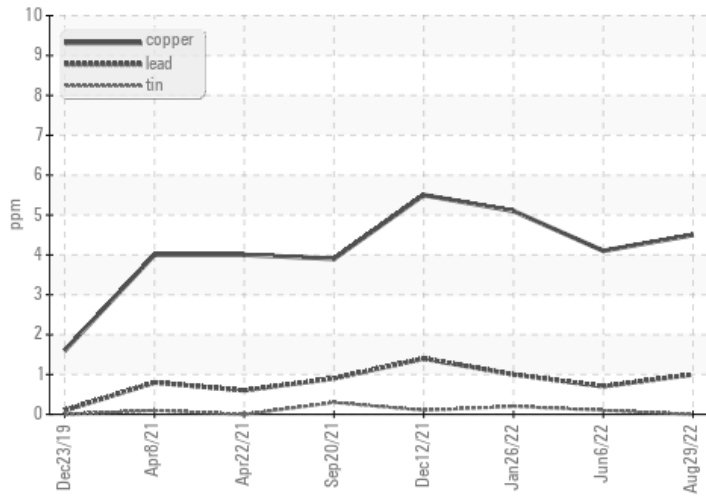


GRAPHS

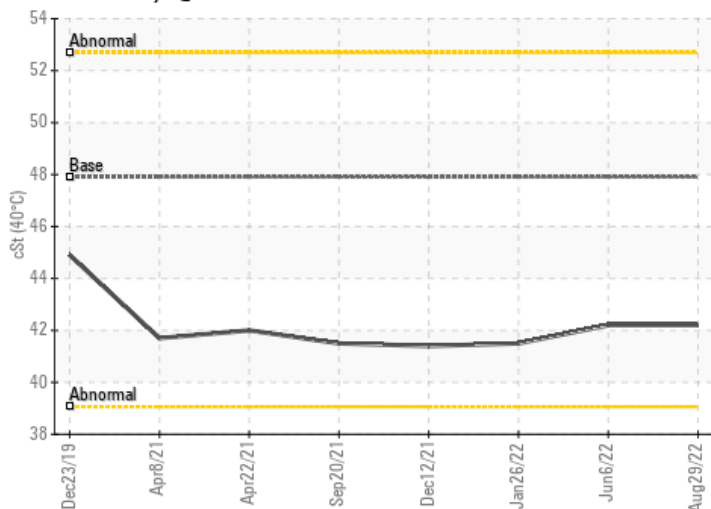
● Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

