LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR R934 048907-1550 - Hydraulic System

Sample No: LH0260549

Oil Type: PETRO CANADA HYDREX AW 46

REGEHR CONTRACTING
6547 MT. LEHMAN ROAD
ABBOTSFORD, BC
CA V4X 2G5
Contact: Service Manager

T:
F:

SAMPLE INFORMATION

Sample Number		**LH0260549**	LH0226687	LH0177403	---
Sample Date		**07 Jul 2023**	16 Mar 2023	28 Aug 2020	---
Machine Hours		**4540**	4080	467	---
Oil Hours		**0**	0	0	---
Oil Changed		**Not Changd**	Not Changd	Not Changd	---
Sample Status		**ABNORMAL**	ABNORMAL	NORMAL	---

OIL CONDITION

Visc @ 40°C	cSt	**41.2**	41.0	44.1	---

CONTAMINATION

Particles >4µm		**5071**	10675	7856	---
Particles >6µm		**1536**	1641	1687	---
Particles >14µm		**126**	63	252	---
ISO 4406:1999 (c)		**20/18/14**	21/18/13	20/18/15	---
Silicon	ppm	**6**	6	2	---
Sodium	ppm	**4**	3	<1	---
Potassium	ppm	**3**	1	2	---

WEAR METALS

PQ		**7**	1	---	---
Iron	ppm	**87**	62	8	---
Copper	ppm	**8**	7	2	---
Lead	ppm	**1**	1	<1	---
Tin	ppm	**0**	0	0	---
Aluminum	ppm	**1**	1	<1	---
Chromium	ppm	**2**	2	<1	---
Molybdenum	ppm	**0**	0	0	---
Nickel	ppm	**<1**	0	<1	---
Titanium	ppm	**0**	<1	<1	---
Silver	ppm	**0**	0	<1	---
Manganese	ppm	**2**	1	<1	---
Vanadium	ppm	**0**	0	0	---

ADDITIVES

Calcium	ppm	**659**	780	1376	---
Magnesium	ppm	**4**	4	8	---
Zinc	ppm	**640**	653	729	---
Phosphorus	ppm	**580**	606	632	---
Barium	ppm	**<1**	0	<1	---
Boron	ppm	**<1**	<1	<1	---

Diagnosis

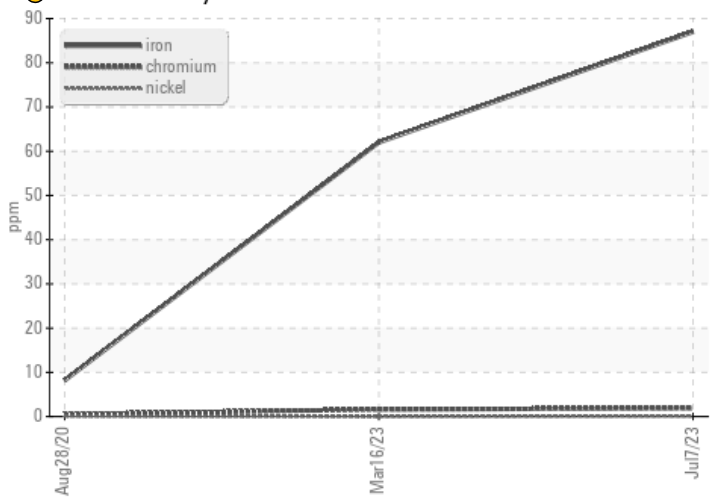
We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: REGABB
Unique No: 5605865
Signed: Kevin Marson
Report Date: 11 Jul 2023

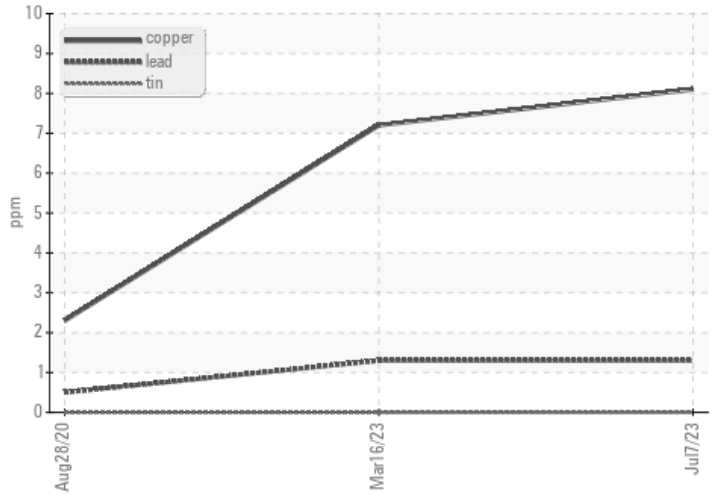
LIEBHERR
CONSTRUCTION EQUIPMENT

GRAPHS

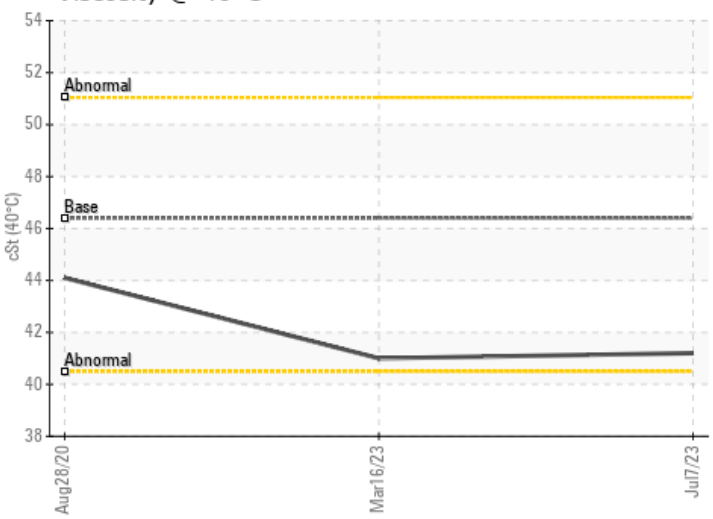
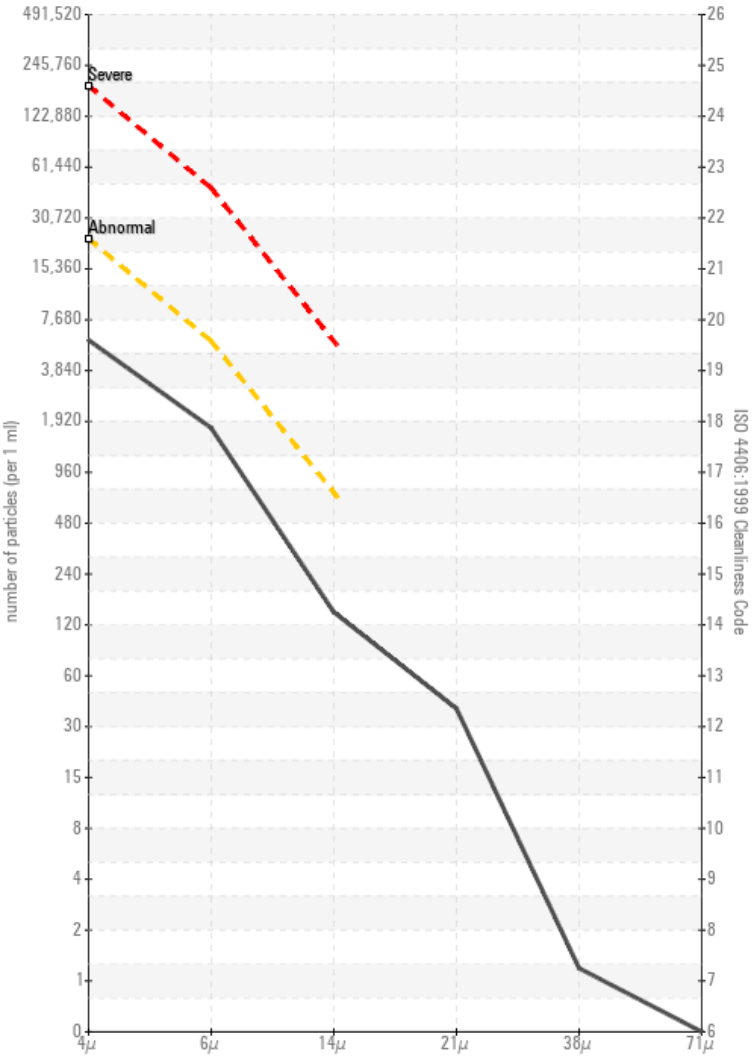
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count