

LIEBHERR

CONSTRUCTION EQUIPMENT



[WEST COAST METAL] LIEBHERR R924 041508 - Hydraulic Sys

Sample No: LH0250589

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



SAMPLE INFORMATION

Sample Number	LH0250589	LH0246934	LH0238677	LH0226778
Sample Date	14 Sep 2023	09 Feb 2023	18 Oct 2022	11 May 2022
Machine Hours	13615	12736	12262	11532
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	NORMAL	ATTENTION	NORMAL	ABNORMAL

West Coast Metal Recycling

5771 Production Way

Langley, BC

CA V3A 4N5

Contact: Terry .

terry@gotmetal.ca

T:

F:



OIL CONDITION

Visc @ 40°C	cSt	43.4	44.2	43.0	43.1
		●	●	●	●



CONTAMINATION

Particles >4µm		● 9714	● 38160	● 4331	● 44009
Particles >6µm		● 780	● 7210	● 267	● 3838
Particles >14µm		● 18	● 291	● 13	● 262
ISO 4406:1999 (c)		20/17/11	22/20/15	19/15/11	23/19/15
Silicon	ppm	● 1	● 2	● 1	● 1
Sodium	ppm	● <1	● <1	● <1	● 1
Potassium	ppm	● <1	● 0	● <1	● <1



WEAR METALS

Iron	ppm	● 4	● 8	● 16	● 34
Copper	ppm	● 1	● 2	● 5	● 5
Lead	ppm	● <1	● <1	● <1	● <1
Tin	ppm	● 0	● 0	● <1	● 0
Aluminum	ppm	● <1	● <1	● <1	● <1
Chromium	ppm	● <1	● <1	● <1	● 3
Molybdenum	ppm	● <1	● <1	● <1	● 1
Nickel	ppm	● 0	● 0	● 0	● 0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	● 0	● <1	● <1	● <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	● 66	● 66	● 65	● 79
Magnesium	ppm	● 3	● 2	● 2	● 2
Zinc	ppm	440	427	460	● 492
Phosphorus	ppm	362	375	400	● 417
Barium	ppm	● 0	● 0	● 0	● 0
Boron	ppm	● <1	● 1	● 1	● 2

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. 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 condition of the oil is acceptable for the time in service.

Depot: WES577LAN

Unique No: 5645056

Signed: Wes Davis

Report Date: 21 Sep 2023

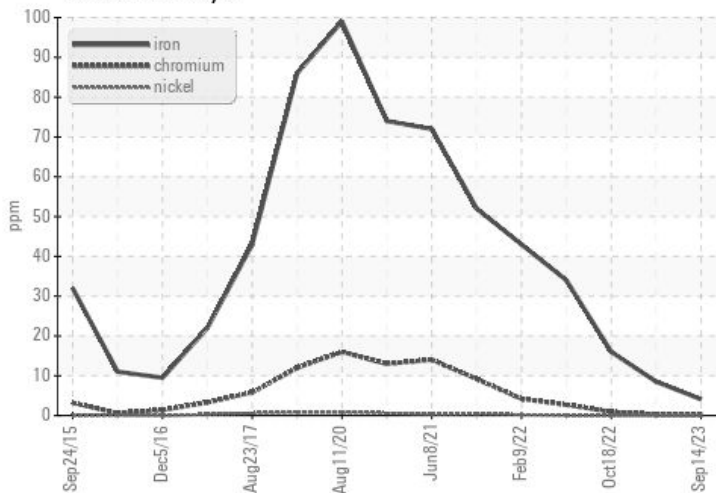
LIEBHERR

CONSTRUCTION EQUIPMENT

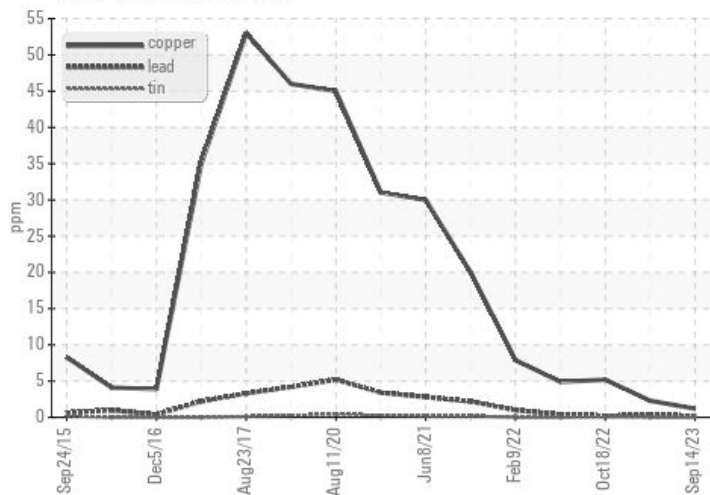


GRAPHS

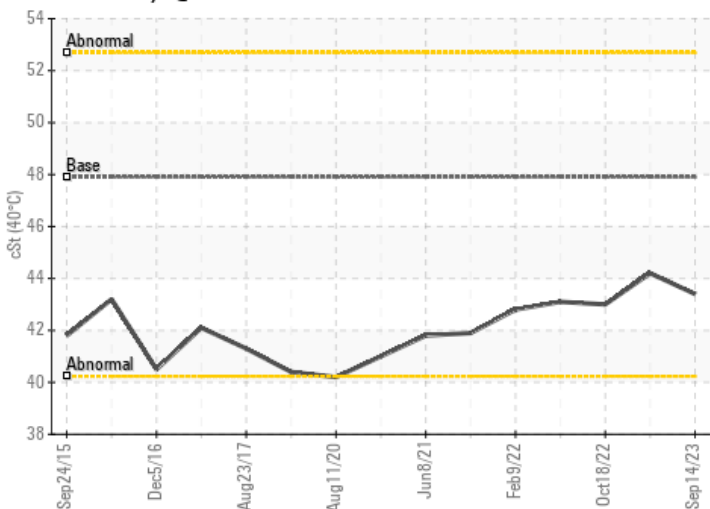
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

