LIEBHERR
CONSTRUCTION EQUIPMENT

[(369353)] LIEBHERR LH30M 136880-1253 - Hydraulic Systen

Sample No: LH0281038

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL

SAMPLE INFORMATION

Sample Number		**LH0281038**	LH0242045	LH0260557	LH0226443
Sample Date		**15 Mar 2024**	23 Nov 2023	12 Sep 2023	13 Feb 2023
Machine Hours		**5489**	4745	4272	2833
Oil Hours		**0**	0	0	0
Oil Changed		**Changed**	Not Changd	Not Changd	Changed
Sample Status		**NORMAL**	NORMAL	NORMAL	NORMAL

OIL CONDITION

Visc @ 40°C	cSt	**42.7**	42.6	42.7	42.7
Acid Number (AN)	mg KOH/g	**---**	---	---	0.49

CONTAMINATION

Water	%	**NEG**	NEG	NEG	NEG
Particles >4µm		**1284**	311	1090	305
Particles >6µm		**208**	88	214	29
Particles >14µm		**9**	8	15	4
ISO 4406:1999 (c)		**17/15/10**	15/14/10	17/15/11	15/12/9
Silicon	ppm	**<1**	2	2	1
Sodium	ppm	**<1**	1	<1	<1
Potassium	ppm	**0**	0	<1	<1

WEAR METALS

Iron	ppm	**15**	19	20	23
Copper	ppm	**2**	3	3	3
Lead	ppm	**0**	<1	<1	1
Tin	ppm	**0**	0	0	1
Aluminum	ppm	**0**	<1	<1	<1
Chromium	ppm	**2**	2	2	2
Molybdenum	ppm	**0**	0	<1	<1
Nickel	ppm	**0**	<1	0	0
Titanium	ppm	**0**	0	<1	<1
Silver	ppm	**0**	<1	0	0
Manganese	ppm	**0**	0	<1	<1
Vanadium	ppm	**0**	0	0	0

ADDITIVES

Calcium	ppm	**96**	136	149	208
Magnesium	ppm	**3**	2	2	2
Zinc	ppm	**460**	484	494	482
Phosphorus	ppm	**359**	384	406	424
Barium	ppm	**0**	<1	0	0
Boron	ppm	**0**	<1	<1	<1

West Coast Metal Recycling
5771 Production Way
Langley, BC
CA V3A 4N5
Contact: Terry .
terry@gotmetal.ca
T:
F:

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: 5748564
Signed: Wes Davis
Report Date: 21 Mar 2024

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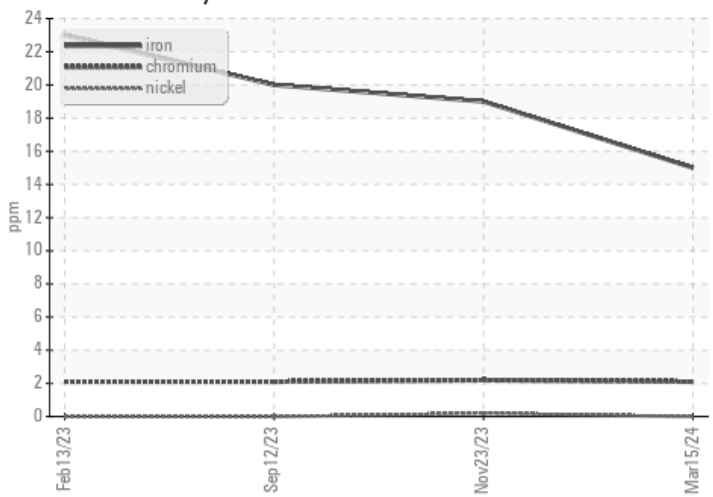
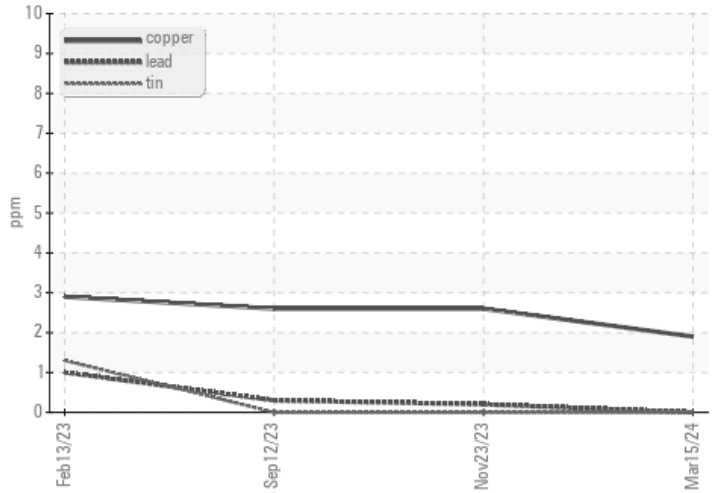
GRAPHS

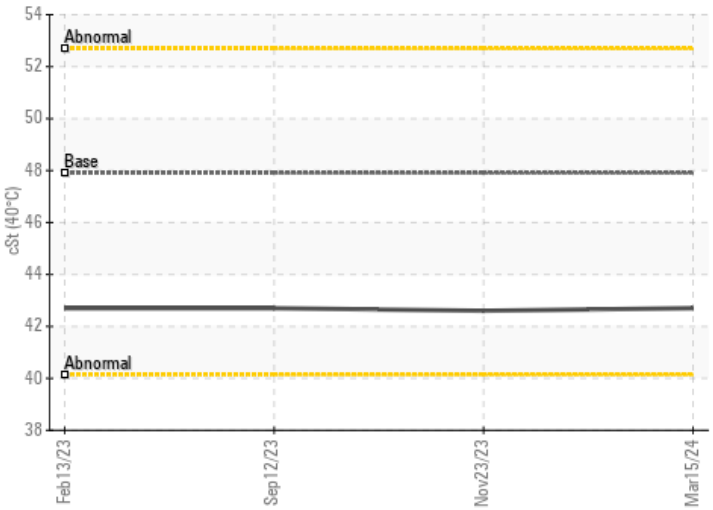
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count