

LIEBHERR

CONSTRUCTION EQUIPMENT



[[577894]] LIEBHERR R934CEW 036784-027 - Hydraulic Sys

Sample No: LH0250391

Oil Type: TDH FLUID SAE 75W80



SAMPLE INFORMATION

Sample Number	LH0250391	LH0104773	LH0094099	LH0088920
Sample Date	08 Nov 2023	06 Sep 2016	12 May 2016	15 Feb 2016
Machine Hours	5342	4957	4368	3909
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

RICHMOND STEEL RECYCLING
 11760 MITCHELL ROAD
 RICHMOND, BC
 CA V6V 1V8
 Contact: Aaron Kaetler
 AKaetler@richmondsteel.ca
 T:
 F: (604)324-8617



OIL CONDITION

Visc @ 40°C	cSt	31.6	44.6	44.4	44.3
-------------	-----	-------------	------	------	------



CONTAMINATION

Particles >4µm	78606	1726	7172	3663
Particles >6µm	3342	240	1204	688
Particles >14µm	62	9	65	36
ISO 4406:1999 (c)	23/19/13	18/15/10	20/17/13	19/17/12
Silicon ppm	3	4	6	4
Sodium ppm	2	5	4	4
Potassium ppm	<1	0	0	0



WEAR METALS

Iron ppm	19	12	16	13
Copper ppm	5	6	6	5
Lead ppm	<1	1	1	1
Tin ppm	0	0	<1	0
Aluminum ppm	<1	<1	1	1
Chromium ppm	<1	<1	<1	<1
Molybdenum ppm	5	<1	<1	<1
Nickel ppm	0	0	0	0
Titanium ppm	0	0	0	0
Silver ppm	<1	0	0	0
Manganese ppm	0	<1	<1	<1
Vanadium ppm	0	0	0	0



ADDITIVES

Calcium ppm	371	2922	2846	2888
Magnesium ppm	77	9	9	9
Zinc ppm	320	1122	1133	1132
Phosphorus ppm	447	905	908	878
Barium ppm	<1	<1	<1	<1
Boron ppm	4	<1	2	<1

Diagnosis

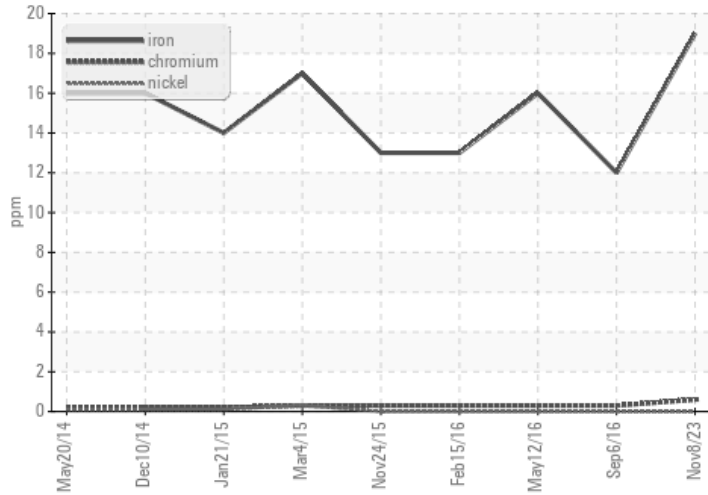
We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. Viscosity of sample indicates oil is within SAE 70W80 range, advise investigate. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Depot: RIC117RIC
Unique No: 5672708
Signed: Kevin Marson
Report Date: 15 Nov 2023

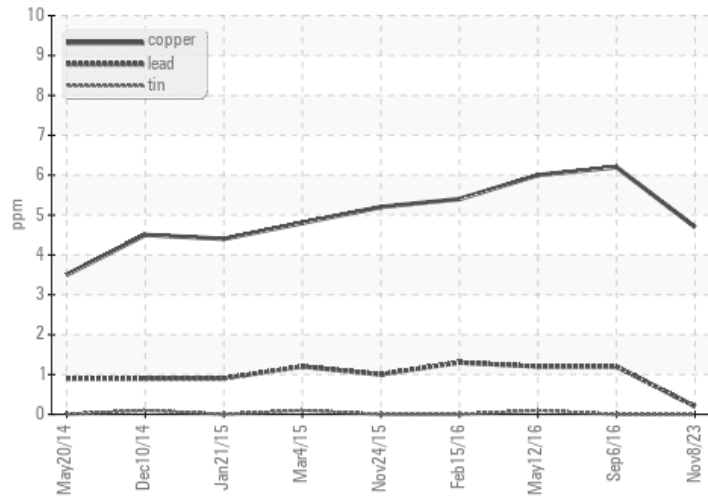


GRAPHS

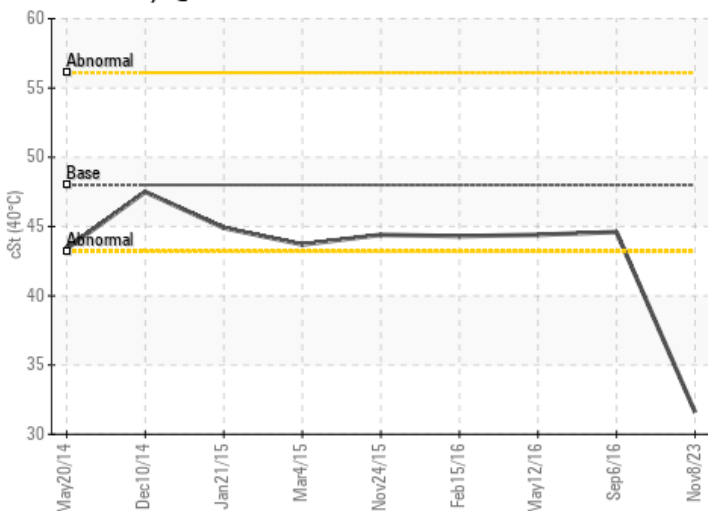
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

