



HYSTER F31 - Hydraulic System

Sample No: LH0260566

Oil Type: PETRO CANADA HYDREX MV 46



Sample Information

Sample Number	LH0260566	LH0250510	LH0240778	LH0240789
Sample Date	05 Mar 2024	20 Sep 2023	23 Mar 2023	29 Nov 2022
Machine Hours	4782	4556	4305	4054
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	SEVERE	SEVERE	SEVERE	SEVERE

Radius Recycling Canada Ltd.

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Oil Condition

Visc @ 40°C	cSt	43.3	43.6	41.7	41.9



Contamination

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		86788	98160	86677	86918
Particles >6µm		6554	14237	11226	10130
Particles >14µm		21	63	19	39
ISO 4406:1999 (c)		24/20/12	24/21/13	24/21/11	24/21/12
Silicon	ppm	4	6	4	3
Sodium	ppm	1	2	2	2
Potassium	ppm	<1	<1	<1	<1



Wear Metals

PQ		0	0	0	---
Iron	ppm	23	27	23	12
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	2	2	2	1
Chromium	ppm	8	9	9	5
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	228	258	45	45
Magnesium	ppm	9	9	5	5
Zinc	ppm	128	140	83	86
Phosphorus	ppm	598	596	630	626
Barium	ppm	0	<1	0	0
Boron	ppm	1	2	<1	<1

Diagnosis

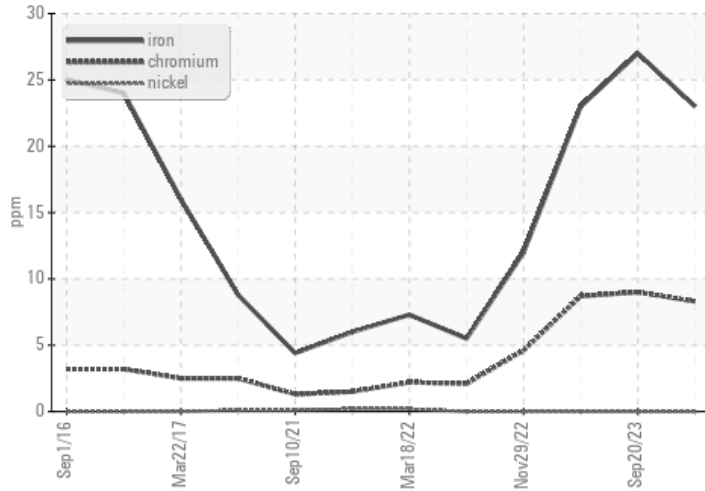
Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: AMISUR
Unique No: 5760513
Signed: Kevin Marson
Report Date: 09 Apr 2024

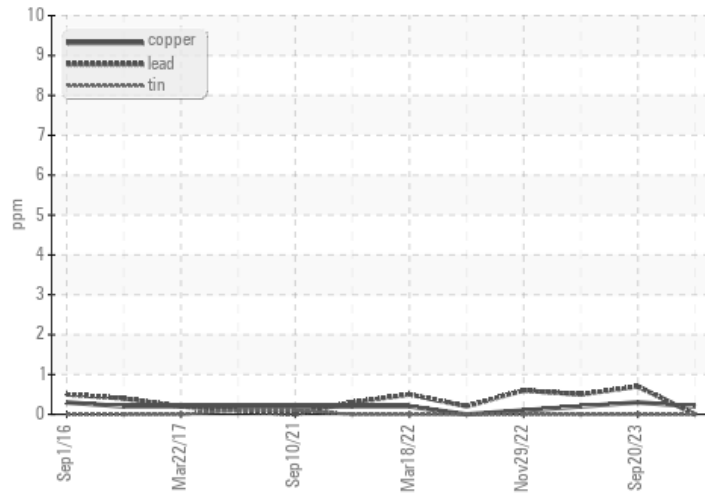


Graphs

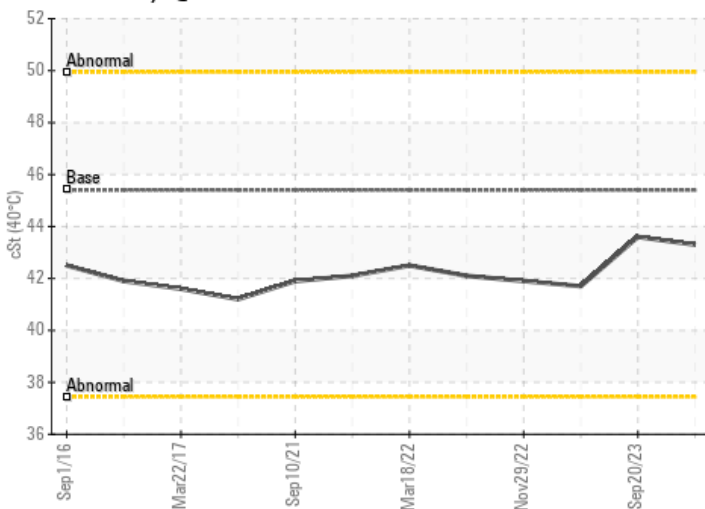
● Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



● Particle Count

