



CONSTRUCTION EQUIPMENT

RAMBLER 393333 GROVE RT58D 220282 - HYDRAULIC SYSTEM



Sample No: VCP449382
Oil Type: PETRO CANADA HYDREX MV 32
Job No: 393333



SAMPLE INFORMATION

Sample Number	VCP449382	VCP380883	VCP380885	VCP379515
Sample Date	29 Jan 2024	29 Dec 2023	20 Dec 2023	12 Dec 2022
Machine Hours	0	6052	6052	0
Oil Hours	0	0	0	0
Oil Changed	Not Changd	N/A	Not Changd	Not Changd
Sample Status	SEVERE	SEVERE	SEVERE	ABNORMAL

STRONGCO EQUIPMENT--CALGARY

7923 54TH STREET SE
 CALGARY, AB
 CA T2C 4R7

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OIL CONDITION

Visc @ 40°C	cSt	34.6	32.6	31.8	31.9
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CONTAMINATION

Water	%	NEG	0.440	0.249	0.003
Particles >4µm		155660	145634	341364	19644
Particles >6µm		20088	35973	214722	4214
Particles >14µm		296	153	21641	134
ISO 4406:1999 (c)		24/22/15	24/22/14	26/25/22	21/19/14
Silicon	ppm	3	3	10	<1
Sodium	ppm	<1	1	2	0
Potassium	ppm	1	4	1	0

Diagnosis

We advise that you check for the source of water entry. 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. Confirm the source of the lubricant being utilized for top-up/fill. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. There is a moderate concentration of water present in the oil. Free water present. Additive levels indicate the addition of a different brand, or type of oil. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



WEAR METALS

PQ		---	---	9	---
Iron	ppm	12	18	24	<1
Copper	ppm	6	6	5	<1
Lead	ppm	3	4	3	0
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	1	3	0
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	411	146	131	158
Magnesium	ppm	3	3	3	3
Zinc	ppm	506	436	446	447
Phosphorus	ppm	411	366	368	385
Barium	ppm	0	0	0	0
Boron	ppm	11	5	4	3

Depot: VOLVO3909
Unique No: 5721263
Signed: Bill Quesnel
Report Date: 31 Jan 2024

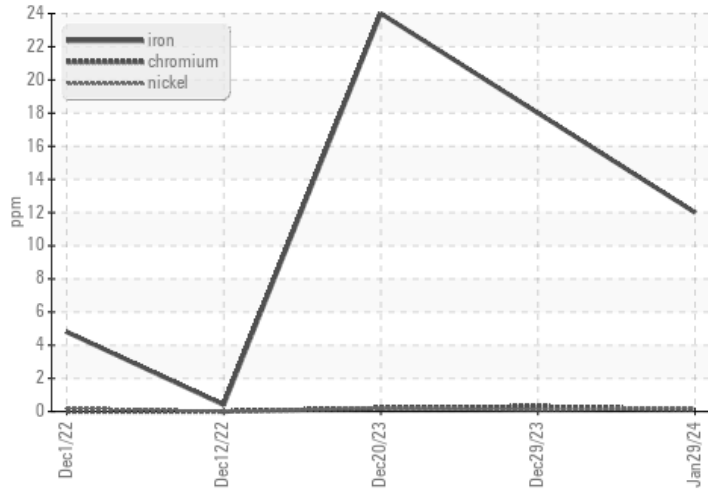


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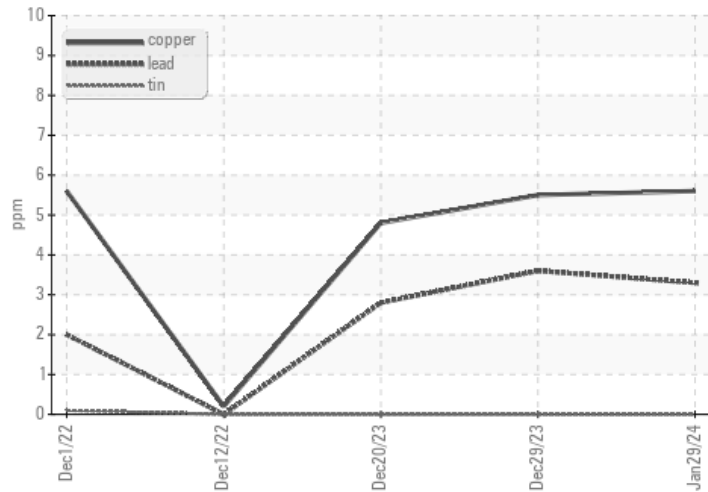


GRAPHS

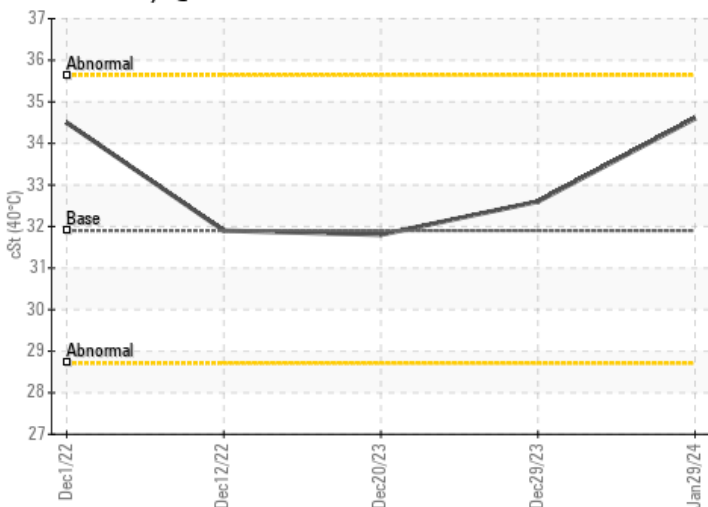
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

