



CONSTRUCTION EQUIPMENT

388282 GROVE RT58D 220282 - HYDRAULIC SYSTEM



Sample No: VCP380885
Oil Type: PETRO CANADA HYDREX MV 32
Job No: 388282



SAMPLE INFORMATION

Sample Number	VCP380885	VCP379515	VCP381354	---
Sample Date	20 Dec 2023	12 Dec 2022	01 Dec 2022	---
Machine Hours	6052	0	0	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	Not Chngd	Not Chngd	---
Sample Status	SEVERE	ABNORMAL	SEVERE	---

STRONGCO EQUIPMENT--CALGARY

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

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OIL CONDITION

Visc @ 40°C	cSt	31.8	31.9	34.5	---
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CONTAMINATION

Water	%	0.249	0.003	NEG	---
Particles >4µm		341364	19644	109434	---
Particles >6µm		214722	4214	27467	---
Particles >14µm		21641	134	403	---
ISO 4406:1999 (c)		26/25/22	21/19/14	24/22/16	---
Silicon	ppm	10	<1	5	---
Sodium	ppm	2	0	1	---
Potassium	ppm	1	0	<1	---

Diagnosis

We advise that you check all areas where contaminants can enter the system. Check seals and/or filters for points of contaminant entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. 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 particulates (2 to 100 microns in size) present in the oil. There is a moderate concentration of water present in the oil. Free water present. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

WEAR METALS

PQ		9	---	---	---
Iron	ppm	24	<1	5	---
Copper	ppm	5	<1	6	---
Lead	ppm	3	0	2	---
Tin	ppm	0	0	<1	---
Aluminum	ppm	3	0	<1	---
Chromium	ppm	<1	0	0	---
Molybdenum	ppm	0	0	0	---
Nickel	ppm	<1	0	<1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	0	<1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	131	158	1180	---
Magnesium	ppm	3	3	5	---
Zinc	ppm	446	447	714	---
Phosphorus	ppm	368	385	641	---
Barium	ppm	0	0	2	---
Boron	ppm	4	3	30	---

Depot: VOLVO3909
Unique No: 5698108
Signed: Kevin Marson
Report Date: 27 Dec 2023

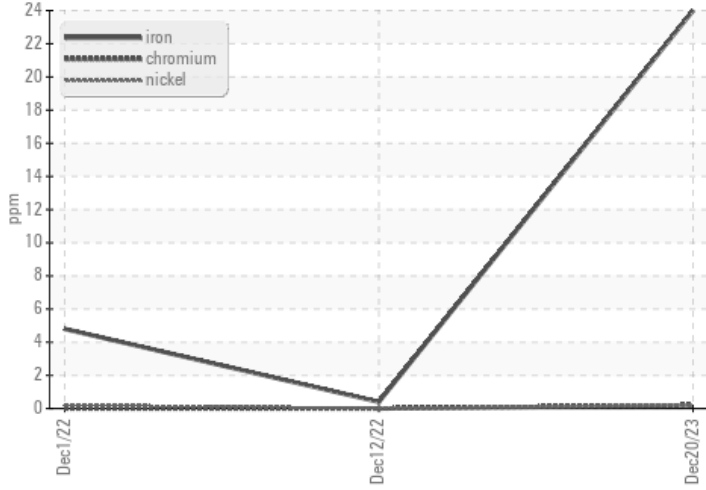


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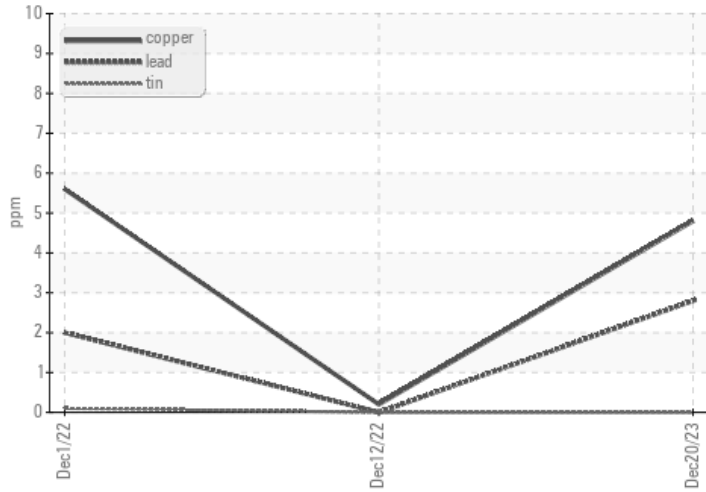


GRAPHS

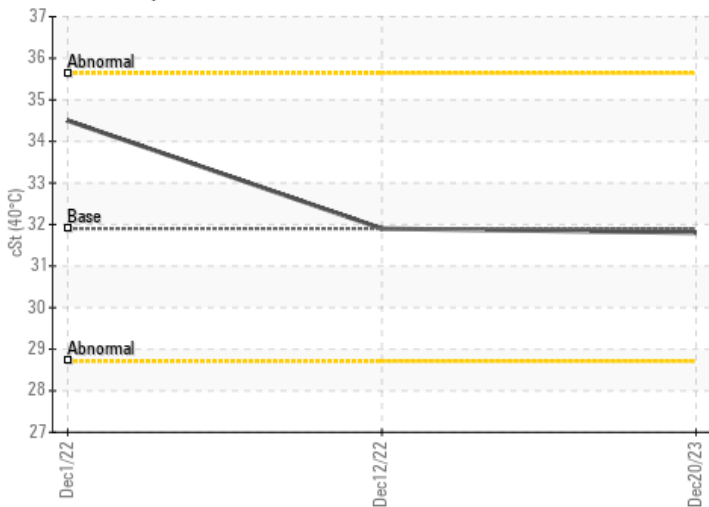
▲ Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



● Particle Count

