



CONSTRUCTION EQUIPMENT

TMR-ROCKLEDGE 75200 94142 VOLVO L90G 3184 - HYDRAULIC SYSTEM



Sample No: VCP446583
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 75200



SAMPLE INFORMATION

Sample Number	VCP446583	VCP411579	VCP385407	VCP349463
Sample Date	21 Feb 2024	31 May 2023	10 Oct 2022	20 Jan 2022
Machine Hours	10646	10091	9559	9217
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	ABNORMAL	ABNORMAL	NORMAL	ATTENTION

TRADEMARK METALS RECYCLING - COCOA BEACH
 490 ANSIN ROAD
 ROCKLEDGE, FL
 US 32955
 Contact: RYAN BOWDEN



OIL CONDITION

Visc @ 40°C	cSt	50.2	49.2	51.1	50.5
Acid Number (AN)	mg KOH/g	1.45	1.45	1.19	2.27

T:
 F: (321)631-5808



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		▲ 29671	▲ 11180	22514	6343
Particles >6µm		▲ 5783	● 1684	529	518
Particles >14µm		▲ 230	78	21	23
ISO 4406:1999 (c)		22/20/15	21/18/13	22/16/12	20/16/12
Silicon	ppm	6	9	10	8
Sodium	ppm	4	0	1	1
Potassium	ppm	1	2	0	0

Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	2	5	3	2
Copper	ppm	5	3	1	2
Lead	ppm	2	<1	0	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	<1	<1	0	1
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	<1	3	3	2
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	2371	2657	2670	2567
Magnesium	ppm	11	12	18	16
Zinc	ppm	1123	1158	1192	1107
Phosphorus	ppm	922	932	920	907
Barium	ppm	0	0	0	0
Boron	ppm	2	<1	0	8

Depot: TRAROCFL
Unique No: 10901130
Signed: Don Baldrige
Report Date: 01 Mar 2024

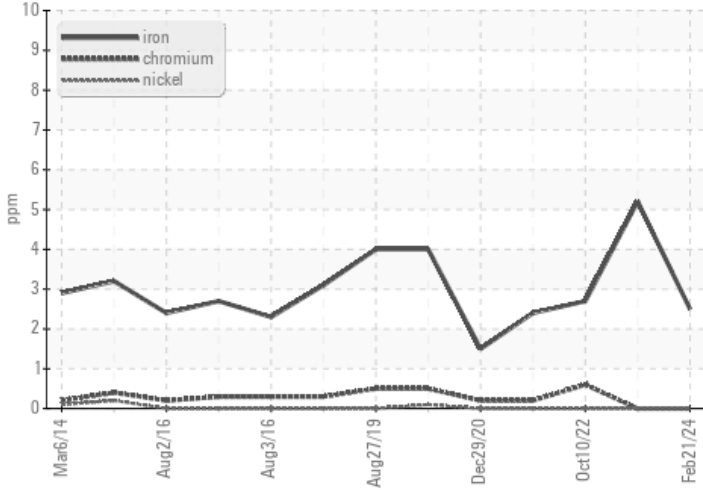


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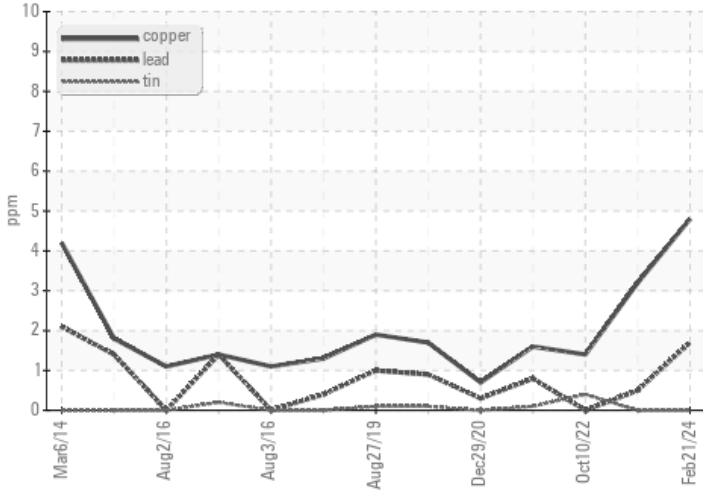


GRAPHS

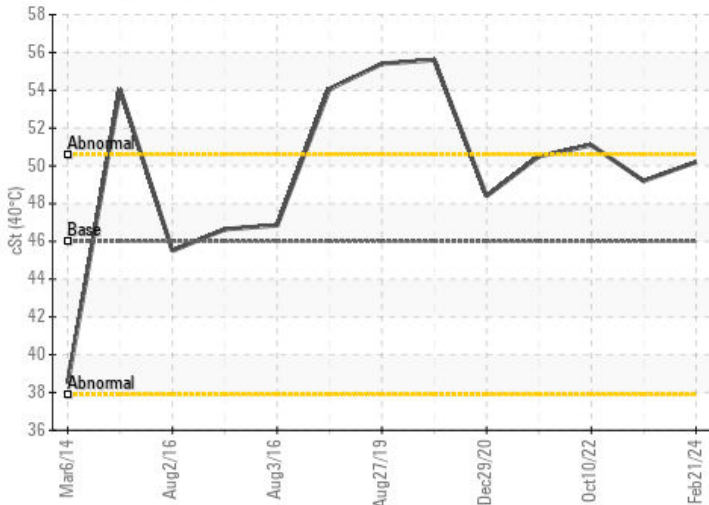
Ferrous Alloys



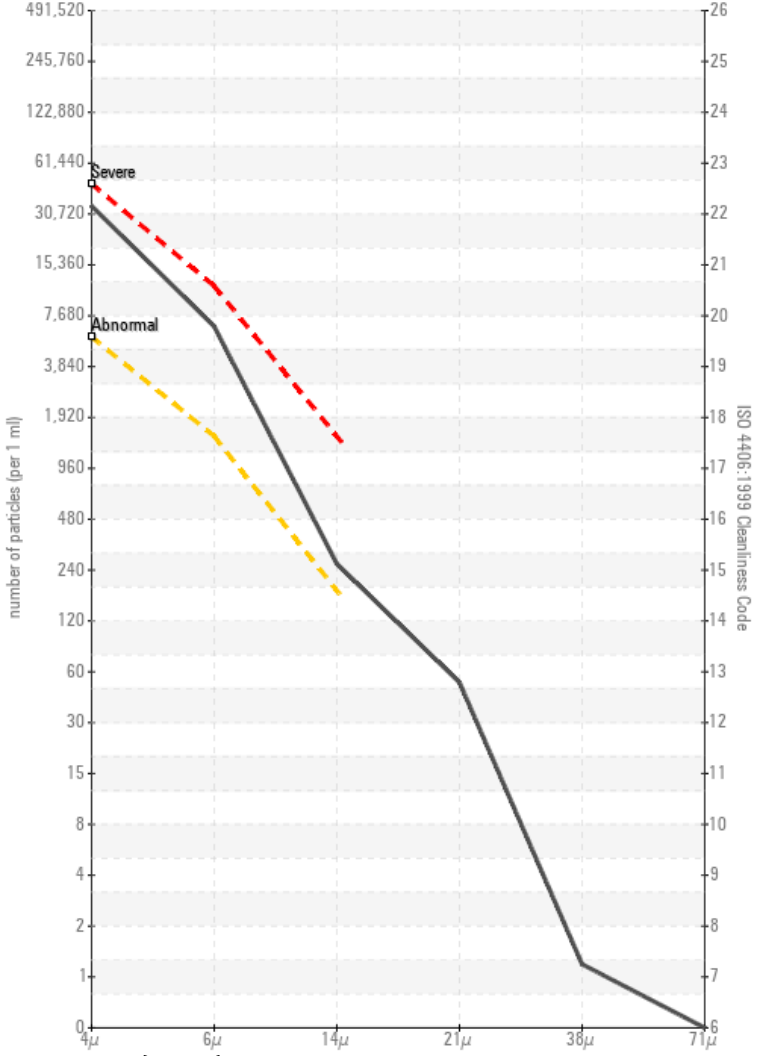
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

