



CONSTRUCTION EQUIPMENT

703206 FRITZ SENNEBOGEN 835C 2743 - HYDRAULIC SYSTEM



Sample No: VCP446427
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 703206 FRITZ



SAMPLE INFORMATION

Sample Number	VCP446427	VCP398230	VCP354450	VCP312798
Sample Date	30 Apr 2024	25 Mar 2023	21 Apr 2022	16 Dec 2021
Machine Hours	10751	10245	6517	4202
Oil Hours	2000	0	2715	4202
Oil Changed	Not Chngd	Changed	Not Chngd	Changed
Sample Status	SEVERE	ABNORMAL	ABNORMAL	ABNORMAL

ALTA EQUIPMENT COMPANY - METRO WEST
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 NEW HUDSON, MI
 US 48165
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OIL CONDITION

Visc @ 40°C	cSt	42.5	37.0	37.7	34.6
Acid Number (AN)	mg KOH/g	0.48	0.71	0.58	0.964



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		▲ 40944	● 5449	▲ 41551	---
Particles >6µm		▲ 6470	■ 368	▲ 9352	---
Particles >14µm		● 258	■ 16	▲ 661	---
ISO 4406:1999 (c)		23/20/15	20/16/11	23/20/17	---
Silicon	ppm	■ 0	■ 2	■ <1	■ 2
Sodium	ppm	■ 7	■ 3	■ 2	■ 6
Potassium	ppm	■ 0	■ 1	■ 1	■ 0

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. The filter change at the time of sampling has been noted. 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. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



WEAR METALS

Iron	ppm	■ <1	■ 8	■ 4	■ 6
Copper	ppm	■ <1	■ 2	■ 1	■ 3
Lead	ppm	■ 0	■ <1	■ <1	■ 1
Tin	ppm	■ 0	■ 0	■ 0	■ 0
Aluminum	ppm	■ 0	■ 1	■ <1	■ <1
Chromium	ppm	■ 8	▲ 25	■ 6	■ 3
Molybdenum	ppm	■ <1	<1	■ <1	■ <1
Nickel	ppm	■ 0	■ <1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	■ 0	<1	■ 0	■ <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 177	496	469	● 1416
Magnesium	ppm	■ 4	4	■ 4	■ 8
Zinc	ppm	■ 439	538	■ 508	■ 730
Phosphorus	ppm	■ 363	427	■ 397	■ 586
Barium	ppm	■ 0	0	■ 0	■ 0
Boron	ppm	■ 0	0	■ <1	■ <1

Depot: VOLVO2990
Unique No: 11007538
Signed: Wes Davis
Report Date: 03 May 2024

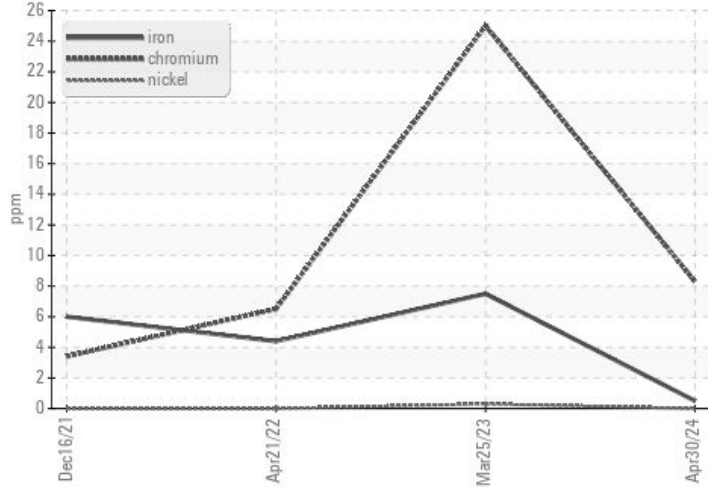


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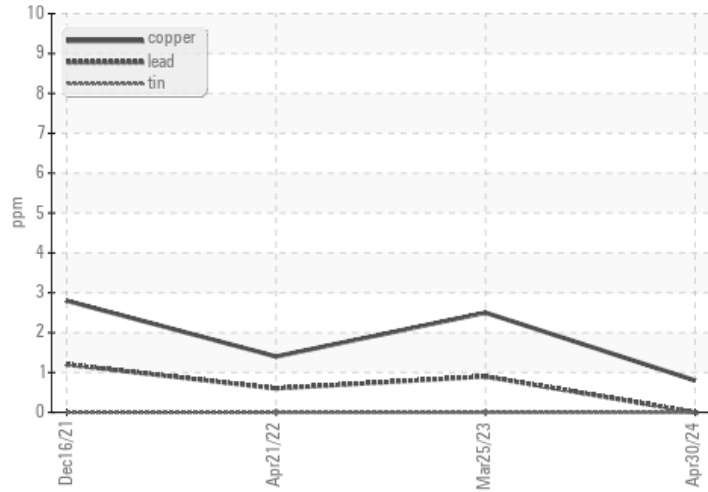


GRAPHS

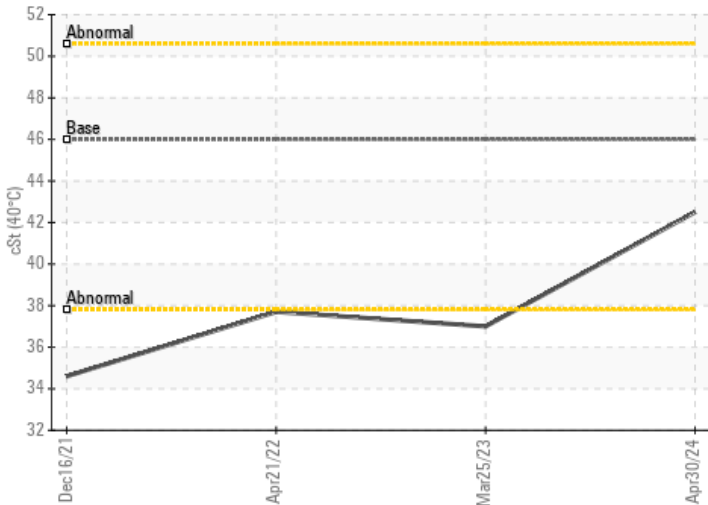
Ferrous Alloys



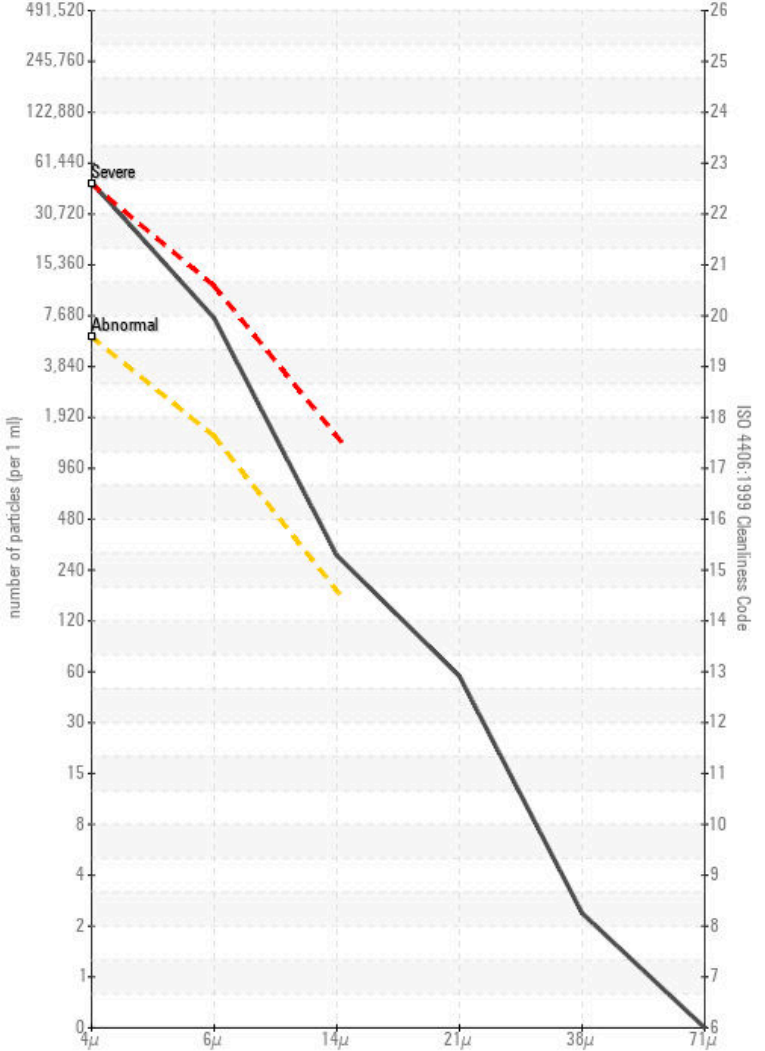
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

