



CONSTRUCTION EQUIPMENT

646154 GERDAU SENNEBOGEN 825 3313 - HYDRAULIC SYSTEM



Sample No: VCP434050
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 646154 GERDAU



SAMPLE INFORMATION

Sample Number	VCP434050	VCP403680	VCP355936	---
Sample Date	13 Dec 2023	11 Jan 2023	30 Mar 2022	---
Machine Hours	3721	2845	1924	---
Oil Hours	3721	2845	1924	---
Oil Changed	Changed	Not Changd	Not Changd	---
Sample Status	ABNORMAL	ABNORMAL	NORMAL	---

ALTA EQUIPMENT COMPANY - METRO WEST
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OIL CONDITION

Visc @ 40°C	cSt	36.2	37.2	39.1	---
Acid Number (AN)	mg KOH/g	1.22	1.01	1.14	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		33332	17707	4651	---
Particles >6µm		6941	4617	794	---
Particles >14µm		283	259	52	---
ISO 4406:1999 (c)		22/20/15	21/19/15	19/17/13	---
Silicon	ppm	1	1	0	---
Sodium	ppm	6	5	2	---
Potassium	ppm	0	0	0	---

Diagnosis

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate 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	3	4	2	---
Copper	ppm	3	3	2	---
Lead	ppm	<1	2	2	---
Tin	ppm	0	0	<1	---
Aluminum	ppm	0	0	0	---
Chromium	ppm	2	1	<1	---
Molybdenum	ppm	0	<1	0	---
Nickel	ppm	0	<1	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	1109	1313	1295	---
Magnesium	ppm	6	9	7	---
Zinc	ppm	624	685	648	---
Phosphorus	ppm	543	559	573	---
Barium	ppm	<1	0	0	---
Boron	ppm	0	0	1	---

Depot: VOLVO2990
Unique No: 10794448
Signed: Wes Davis
Report Date: 20 Dec 2023

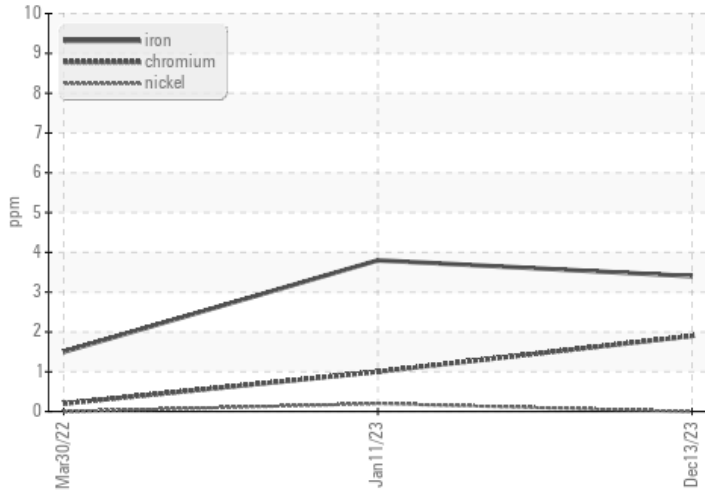


CONSTRUCTION EQUIPMENT

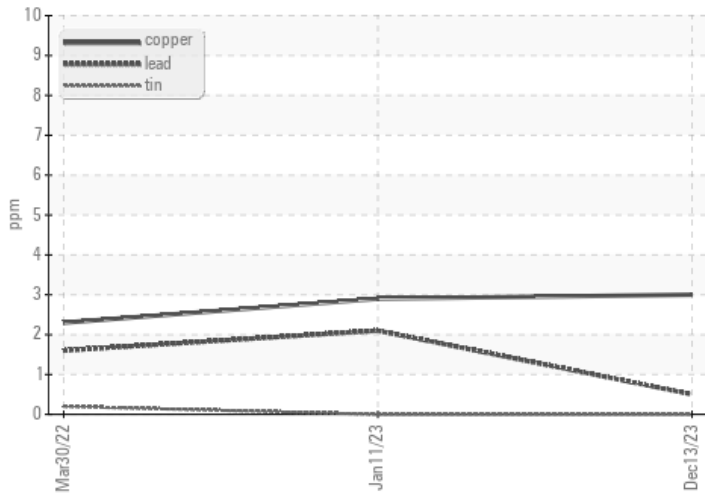


VOLVO GRAPHS

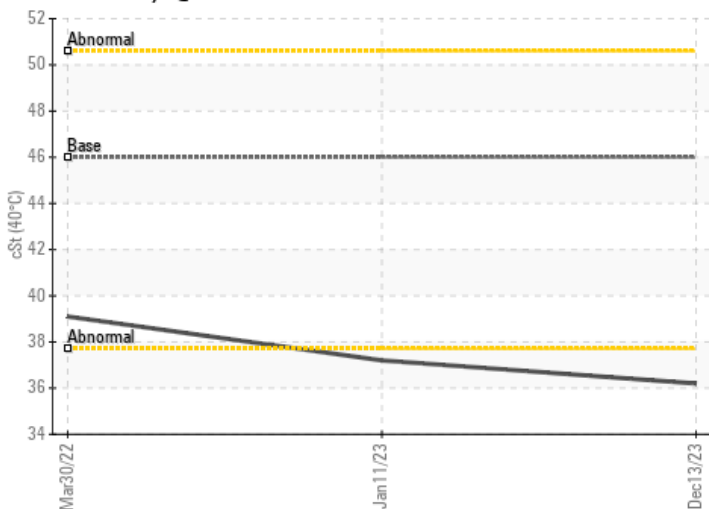
Ferrous Alloys



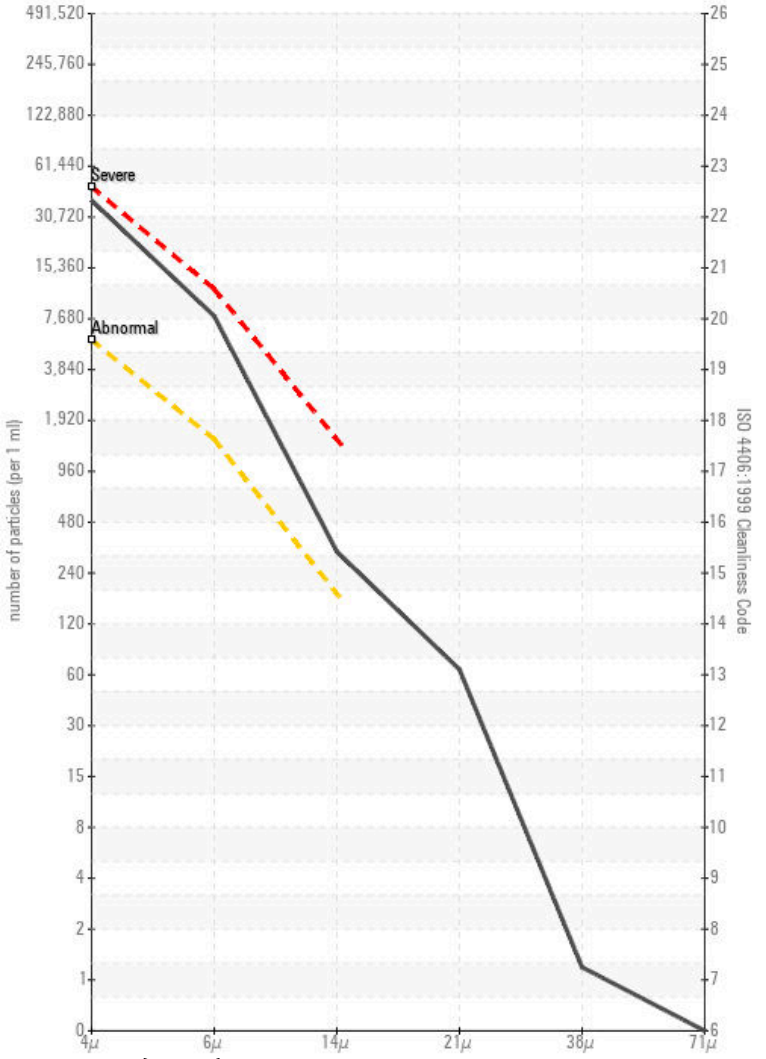
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

