



CONSTRUCTION EQUIPMENT

567208 GERDAU SENNEBOGEN 850 3143 - HYDRAULIC SYSTEM



Sample No: VCP414134
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 567208 GERDAU



SAMPLE INFORMATION

Sample Number	VCP414134	VCP411157	---	---
Sample Date	28 Jun 2023	12 Apr 2023	---	---
Machine Hours	2398	1263	---	---
Oil Hours	2398	1263	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

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OIL CONDITION

Visc @ 40°C	cSt	▲ 35.7	▲ 37.0	---	---
Acid Number (AN)	mg KOH/g	■ 1.10	■ 1.16	---	---

CONTAMINATION

Particles >4µm		▲ 16047	▲ 14347	---	---
Particles >6µm		▲ 3995	▲ 2442	---	---
Particles >14µm		▲ 288	■ 75	---	---
ISO 4406:1999 (c)		21/19/15	21/18/13	---	---
Silicon	ppm	■ 2	■ 1	---	---
Sodium	ppm	■ 3	■ 2	---	---
Potassium	ppm	■ 1	■ 0	---	---

Diagnosis

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

WEAR METALS

Iron	ppm	■ 4	■ 2	---	---
Copper	ppm	■ <1	■ <1	---	---
Lead	ppm	■ <1	■ 0	---	---
Tin	ppm	■ 0	■ 0	---	---
Aluminum	ppm	■ 1	■ <1	---	---
Chromium	ppm	■ <1	■ 0	---	---
Molybdenum	ppm	■ 0	■ <1	---	---
Nickel	ppm	■ 0	■ 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	■ <1	■ <1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	▲ 1461	▲ 1412	---	---
Magnesium	ppm	■ 4	■ 3	---	---
Zinc	ppm	■ 788	■ 759	---	---
Phosphorus	ppm	■ 697	■ 635	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 0	■ 0	---	---

Depot: VOLVO2990
Unique No: 10545861
Signed: Don Baldrige
Report Date: 07 Jul 2023

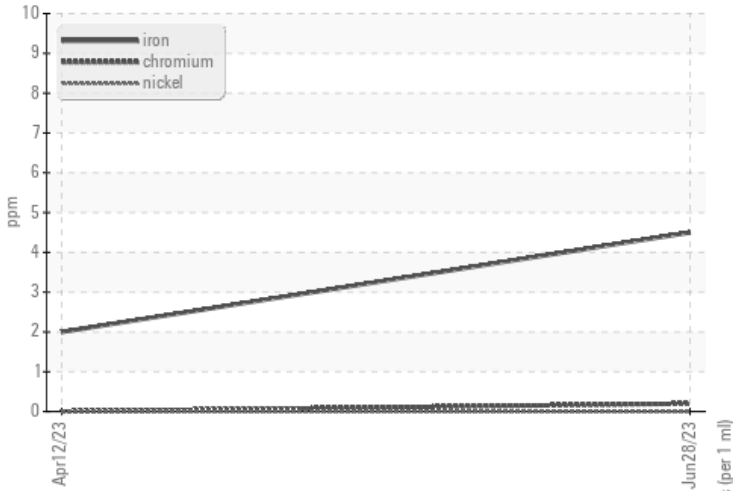


CONSTRUCTION EQUIPMENT

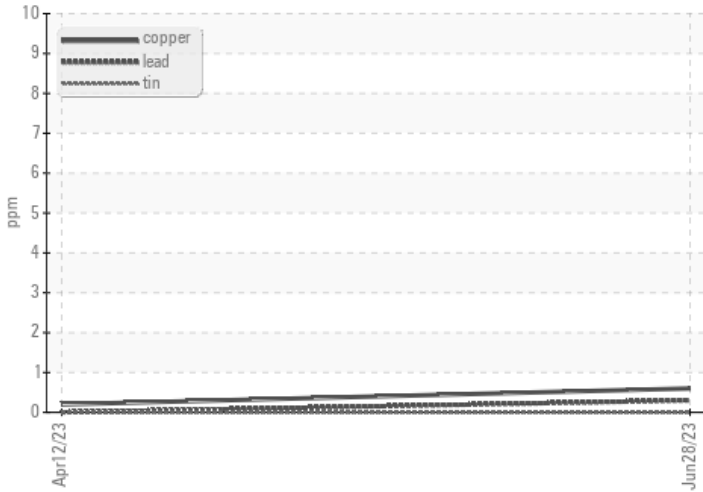


GRAPHS

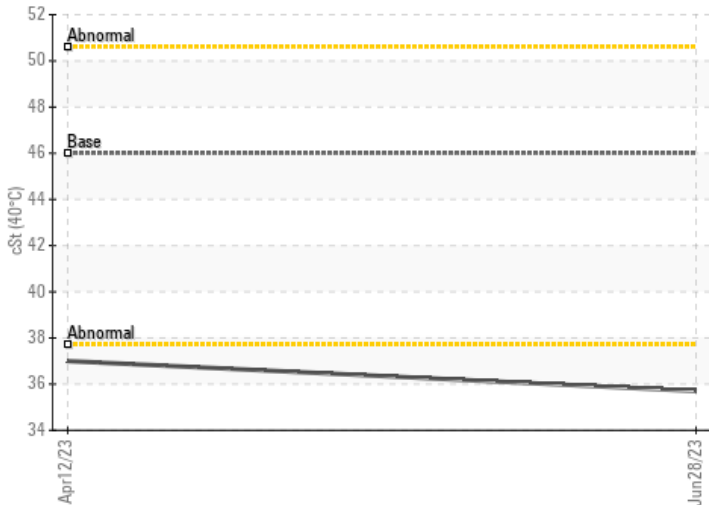
Ferrous Alloys



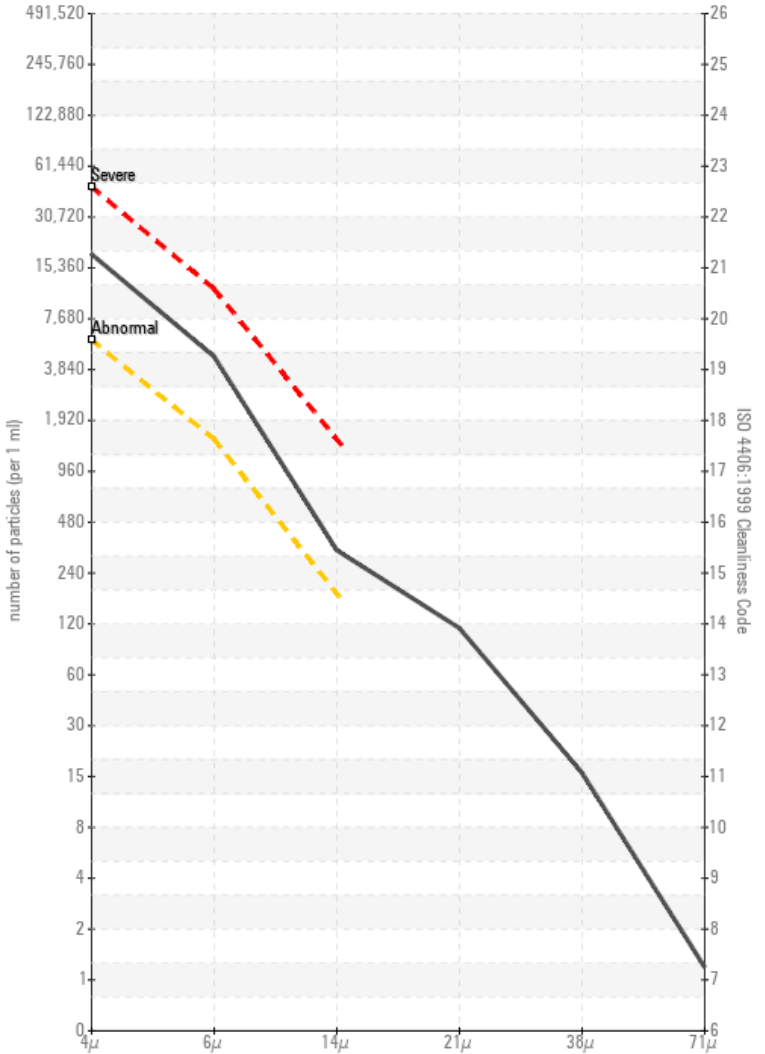
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

