CONSTRUCTION EQUIPMENT

WIREGRASS CONSTR VOLVO EC550E 310237 - HYDRAULIC SYSTEM

Sample No: VCP414685
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: WIREGRASS CONSTR

COWIN EQUIPMENT COMPANY
2238 PINSON VALLEY PARKWAY
BIRMINGHAM, AL
US 35217
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SAMPLE INFORMATION

Sample Number		**VCP414685**	---	---	---
Sample Date		**08 Dec 2023**	---	---	---
Machine Hours		**150**	---	---	---
Oil Hours		**0**	---	---	---
Oil Changed		**Not Changd**	---	---	---
Sample Status		**SEVERE**	---	---	---

OIL CONDITION

Visc @ 40°C	cSt	**42.3**	---	---	---
Acid Number (AN)	mg KOH/g	**0.42**	---	---	---

CONTAMINATION

Water	%	**NEG**	---	---	---
Particles >4µm		**21904**	---	---	---
Particles >6µm		**7853**	---	---	---
Particles >14µm		**818**	---	---	---
ISO 4406:1999 (c)		**22/20/17**	---	---	---
Silicon	ppm	**2**	---	---	---
Sodium	ppm	**0**	---	---	---
Potassium	ppm	**0**	---	---	---

WEAR METALS

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

ADDITIVES

Calcium	ppm	**32**	---	---	---
Magnesium	ppm	**0**	---	---	---
Zinc	ppm	**472**	---	---	---
Phosphorus	ppm	**354**	---	---	---
Barium	ppm	**0**	---	---	---
Boron	ppm	**0**	---	---	---

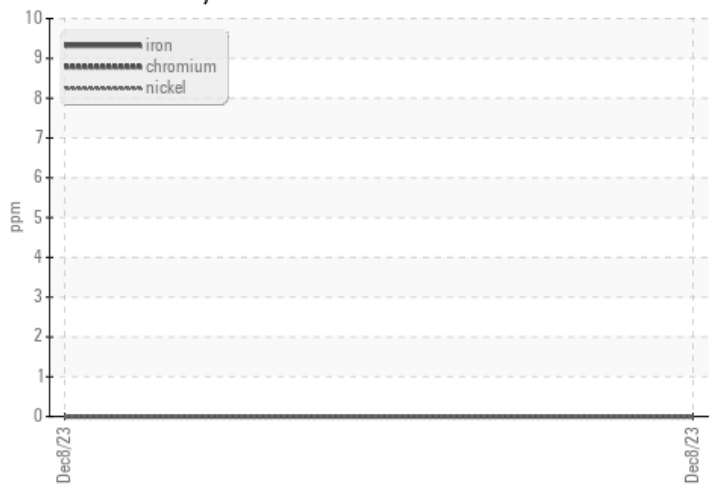
Diagnosis

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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. Resample in 30-45 days to monitor this situation.All component wear rates are normal. There is a high amount of particulates (2 to 100 microns in size) present in the oil. The system cleanliness code is much higher than the acceptable limit for the target ISO 4406 cleanliness code. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

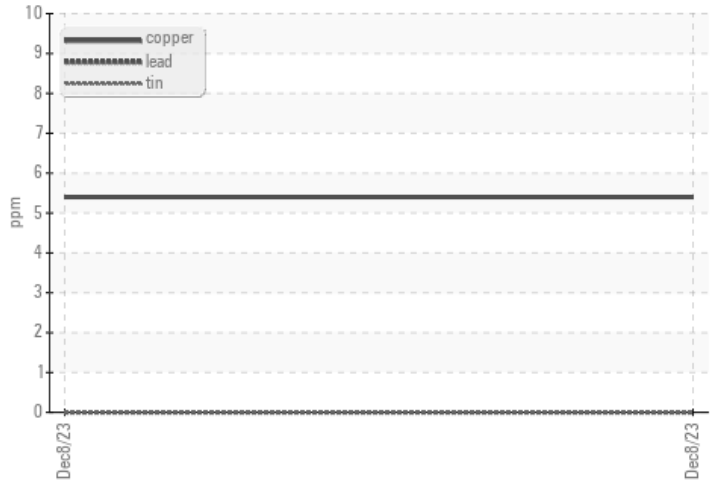
Depot: VOLVO8528
Unique No: 10789808
Signed: Wes Davis
Report Date: 15 Dec 2023

GRAPHS

Ferrous Alloys

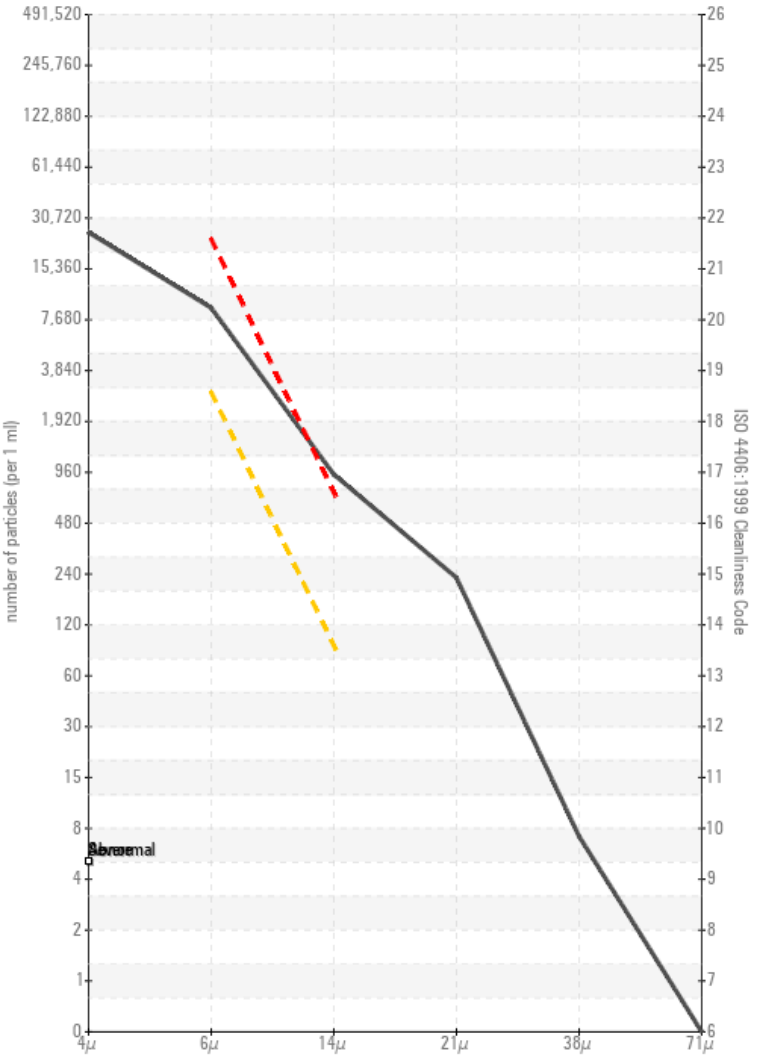
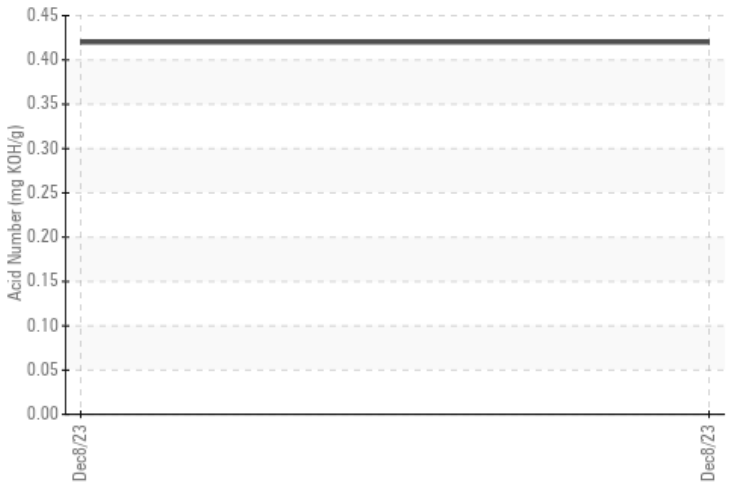


Non-ferrous Metals



Viscosity @ 40°C

Particle Count



Acid Number