



CONSTRUCTION EQUIPMENT

SWO069350 VOLVO EC300ELR 311843 - HYDRAULIC SYSTEM



Sample No: VCP431841
Oil Type: VOLVO DTE 26
Job No: SWO069350



SAMPLE INFORMATION

Sample Number	VCP431841	VCP422329	VCP376426	VCP373112
Sample Date	09 Feb 2024	22 Sep 2023	18 Jan 2023	17 Jun 2022
Machine Hours	5843	5320	4507	3850
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Chngd	Not Chngd	Changed
Sample Status	ATTENTION	ATTENTION	NORMAL	ABNORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 40°C	cSt	▲ 58.5	▲ 59.2	■ 52.3	■ 54.0
Acid Number (AN)	mg KOH/g	■ 0.49	■ 0.61	■ 0.69	■ 0.59



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		▲ 57640	■ 23309	■ 26753	▲ 105472
Particles >6µm		▲ 10699	■ 3282	■ 5826	▲ 16872
Particles >14µm		■ 383	■ 226	■ 487	■ 388
ISO 4406:1999 (c)		23/21/16	22/19/15	22/20/16	24/21/16
Silicon	ppm	■ 5	■ 4	■ 3	■ 5
Sodium	ppm	■ 4	■ 4	■ 2	■ 4
Potassium	ppm	■ <1	■ 1	■ 0	■ 0

Diagnosis

No corrective action is recommended at this time. Oil and 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 moderate amount of silt (particulates < 14 microns in size) present in the oil. The oil viscosity is lower than normal. The AN level is acceptable for this fluid.



WEAR METALS

Iron	ppm	■ 10	■ 9	■ 7	■ 11
Copper	ppm	■ 18	■ 19	■ 16	■ 34
Lead	ppm	■ 0	■ 0	■ 0	■ <1
Tin	ppm	■ 0	■ 0	■ 0	■ <1
Aluminum	ppm	■ 6	■ 0	■ 3	■ 5
Chromium	ppm	■ 4	■ 3	■ 2	■ 3
Molybdenum	ppm	0	<1	1	<1
Nickel	ppm	■ <1	■ 0	■ 0	■ 0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	105	93	88	83
Magnesium	ppm	5	3	4	4
Zinc	ppm	596	537	525	498
Phosphorus	ppm	396	382	376	386
Barium	ppm	0	0	0	<1
Boron	ppm	0	0	0	3

Depot: SAIBIR
Unique No: 10876161
Signed: Jonathan Hester
Report Date: 15 Feb 2024

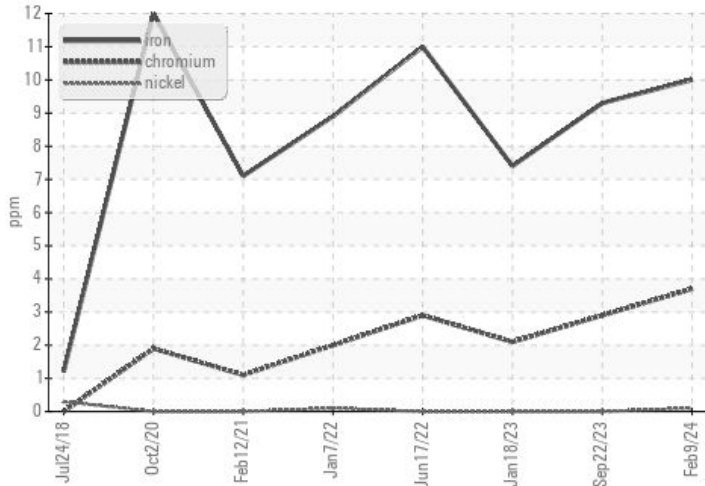


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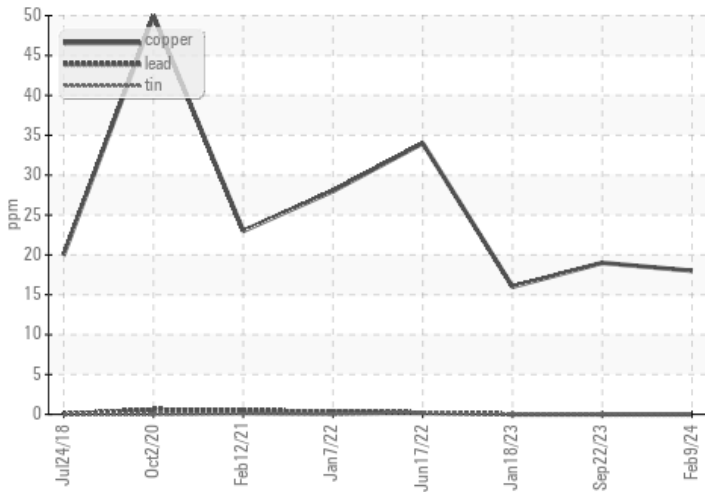


VOLVO GRAPHS

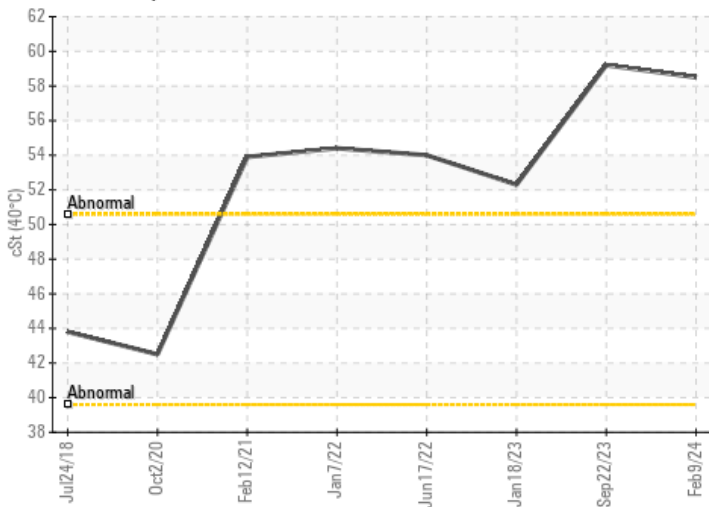
Ferrous Alloys



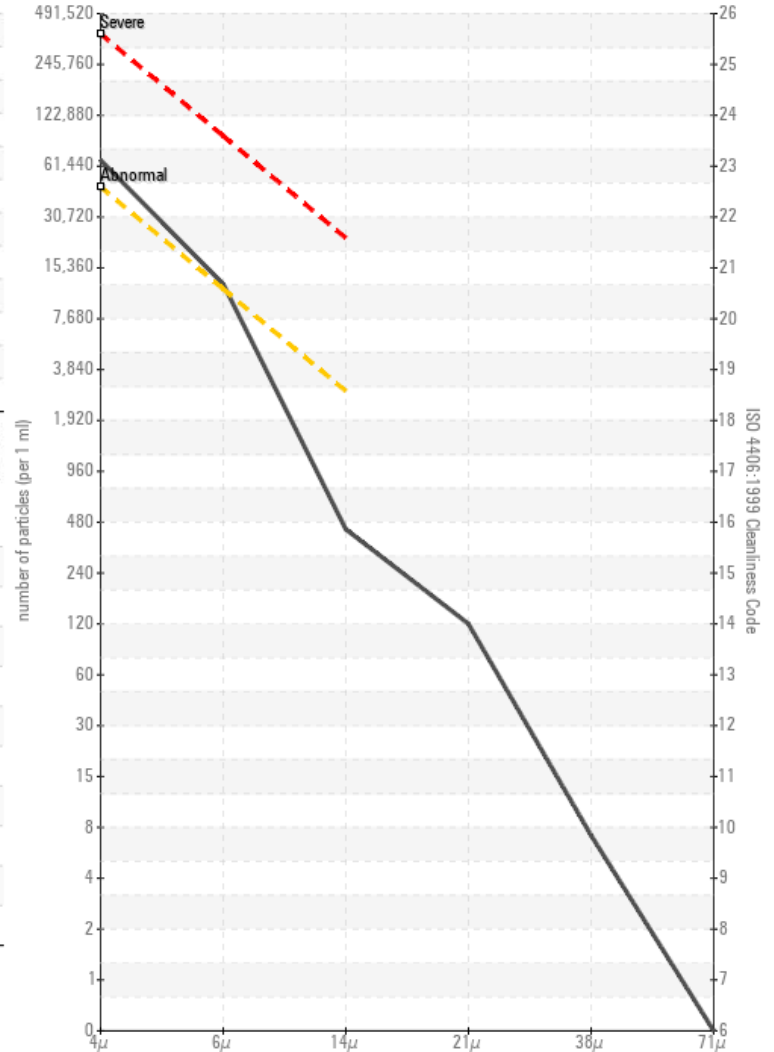
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

