



CONSTRUCTION EQUIPMENT

VOLVO A45G 342321 - REAR AXLE



Sample No: VCP416621
Oil Type: VOLVO API GL-5 SAE 75W90
Job No:



SAMPLE INFORMATION

Sample Number	VCP416621	VCP413179	VCP403658	VCP369070
Sample Date	17 Oct 2023	11 Jul 2023	22 Mar 2023	23 Nov 2022
Machine Hours	8968	8493	8012	7534
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	MARGINAL

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OIL CONDITION

Visc @ 40°C	cSt	312	312	288	286
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CONTAMINATION

Water	%	---	---	---	▲ 0.321
Silicon	ppm	■ 4	■ 3	■ 3	■ 2
Sodium	ppm	■ 0	■ 0	■ 1	■ 0
Potassium	ppm	■ 2	■ 0	■ <1	■ 0

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	■ 14	■ 14	■ 123	■ 82
Copper	ppm	■ <1	■ 0	■ <1	■ <1
Lead	ppm	■ 0	■ 0	■ 0	■ 0
Tin	ppm	■ <1	■ 0	■ 0	■ 0
Aluminum	ppm	■ 1	■ 0	■ <1	■ 0
Chromium	ppm	■ <1	■ <1	■ 2	■ 1
Molybdenum	ppm	■ 3	■ 3	■ 3	■ 2
Nickel	ppm	■ <1	■ 0	■ <1	■ 0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	■ <1	■ <1	■ 4	■ 3
Vanadium	ppm	0	0	0	0



ADDITIVES

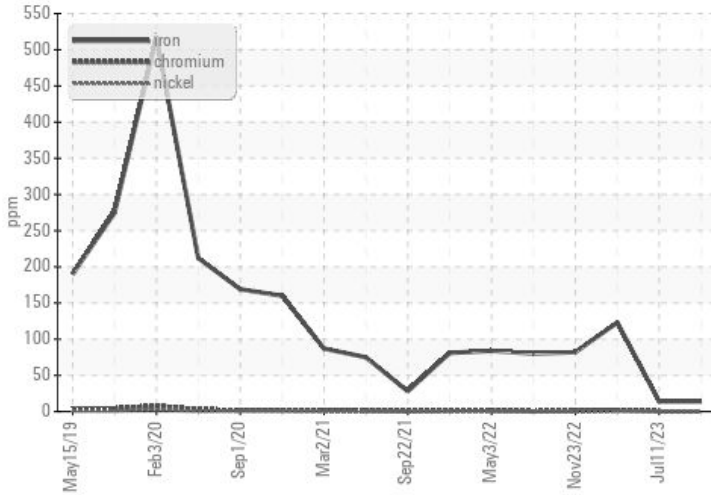
Calcium	ppm	■ 47	■ 57	■ 69	■ 66
Magnesium	ppm	■ 23	■ 28	■ 20	■ 14
Zinc	ppm	■ 39	■ 49	■ 51	■ 47
Phosphorus	ppm	■ 1116	■ 1129	■ 1069	■ 1018
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 203	■ 232	■ 205	■ 231

Depot: SAIBIR
Unique No: 10715033
Signed: Sean Felton
Report Date: 31 Oct 2023

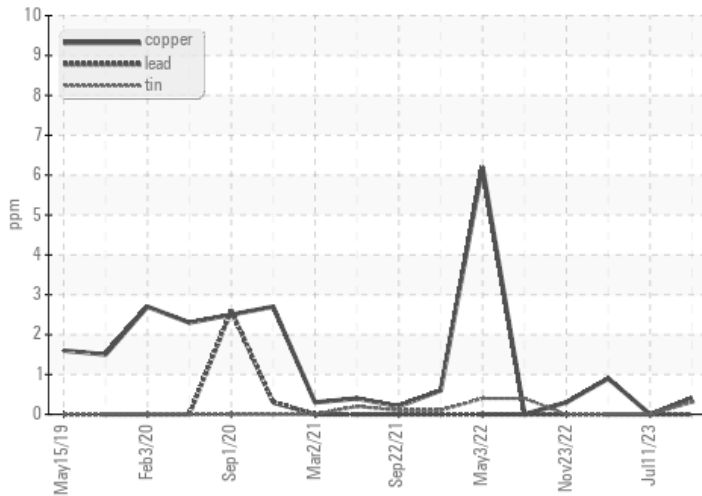


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

