



CONSTRUCTION EQUIPMENT

660308 VOLVO A45G 342286 - REAR AXLE



Sample No: VCP428745
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 660308



SAMPLE INFORMATION

Sample Number	VCP428745	VCP416904	VCP398299	VCP354578
Sample Date	16 Jan 2024	29 Sep 2023	15 Feb 2023	10 Jun 2022
Machine Hours	3868	7665	6453	5089
Oil Hours	2865	3665	2000	1000
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	ATTENTION	ABNORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	▲ 52.0	▲ 53.0	■ 296	■ 301
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	■ 7	■ 10	■ 3	■ 2
Sodium	ppm	■ 2	■ <1	■ <1	■ 1
Potassium	ppm	■ 2	■ 2	■ 0	■ 0



WEAR METALS

Iron	ppm	■ 486	■ 615	■ 118	■ 73
Copper	ppm	■ 7	■ 9	■ 7	■ 3
Lead	ppm	■ 0	■ <1	■ 0	■ 0
Tin	ppm	■ <1	■ 0	■ 0	■ 0
Aluminum	ppm	■ <1	■ 2	■ <1	■ <1
Chromium	ppm	■ 4	■ 6	■ 2	■ 1
Molybdenum	ppm	■ <1	■ 4	■ 1	■ <1
Nickel	ppm	■ 2	■ 3	■ <1	■ 0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	■ 11	■ 13	■ 4	■ 2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 82	■ 56	■ 96	■ 65
Magnesium	ppm	■ 3	■ 3	■ 5	■ 2
Zinc	ppm	▲ 42	■ 45	■ 69	■ 47
Phosphorus	ppm	▲ 2070	■ 2306	■ 953	■ 671
Barium	ppm	■ 0	■ 9	■ 0	■ 0
Boron	ppm	■ 93	■ 116	■ 149	■ 51

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 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.

Depot: VOLVO0093
Unique No: 10886621
Signed: Sean Felton
Report Date: 21 Feb 2024



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GRAPHS

