



CONSTRUCTION EQUIPMENT

660308 MOSAIC VOLVO A45G 342286 - DROP BOX



Sample No: VCP432124
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 660308 MOSAIC



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SAMPLE INFORMATION

Sample Number	VCP432124	VCP425069	VCP409337	VCP372476
Sample Date	16 Jan 2024	29 Sep 2023	15 Feb 2023	10 Jun 2022
Machine Hours	3868	7665	6453	5089
Oil Hours	3868	3665	2000	1000
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	ATTENTION	ATTENTION	NORMAL	ATTENTION



OIL CONDITION

Visc @ 40°C	cSt	▲ 43.6	▲ 50.6	■ 283	▲ 45.8
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	■ 27	■ 35	■ 4	■ 33
Sodium	ppm	■ 4	■ 5	■ <1	■ 8
Potassium	ppm	■ 2	■ 4	■ 0	■ 0



WEAR METALS

Iron	ppm	■ 120	■ 61	■ 168	■ 114
Copper	ppm	■ 8	■ 11	■ 2	■ 7
Lead	ppm	■ 0	■ <1	■ 0	■ 0
Tin	ppm	■ 0	■ <1	■ 0	■ <1
Aluminum	ppm	■ 11	■ 2	■ <1	■ 10
Chromium	ppm	■ <1	■ <1	■ 3	■ 1
Molybdenum	ppm	■ 5	■ 3	■ 2	■ 5
Nickel	ppm	■ <1	■ <1	■ <1	■ 0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	■ 3	■ 2	■ 6	■ 4
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	▲ 400	■ 70	■ 51	■ 510
Magnesium	ppm	■ 4	■ 3	■ 5	■ 4
Zinc	ppm	▲ 236	■ 88	■ 55	■ 338
Phosphorus	ppm	▲ 1612	2341	■ 964	■ 1803
Barium	ppm	■ 10	■ 10	■ 0	■ 0
Boron	ppm	▲ 38	■ 82	■ 150	■ 63

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: 10886642
Signed: Sean Felton
Report Date: 21 Feb 2024



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GRAPHS

