



CONSTRUCTION EQUIPMENT

687121 APTIM VOLVO A35G 340236 - BOGIE/CENTER AXLE



Sample No: VCP444167
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 687121 APTIM



SAMPLE INFORMATION

Sample Number	VCP444167	VCP437880	VCP392730	VCP353526
Sample Date	12 Mar 2024	26 Feb 2024	25 May 2023	31 Aug 2022
Machine Hours	8945	7992	6888	5673
Oil Hours	3000	4000	4000	1600
Oil Changed	Not Chngd	Changed	Changed	Not Chngd
Sample Status	ATTENTION	ATTENTION	ATTENTION	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	51.5	51.7	51.9	51.8
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	5	5	3	4
Sodium	ppm	1	2	0	<1
Potassium	ppm	0	1	1	1

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. Confirm oil type.



WEAR METALS

Iron	ppm	499	300	203	173
Copper	ppm	27	11	8	6
Lead	ppm	<1	<1	0	0
Tin	ppm	0	<1	0	0
Aluminum	ppm	<1	2	0	<1
Chromium	ppm	6	4	2	2
Molybdenum	ppm	6	6	5	3
Nickel	ppm	2	2	1	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	13	11	9	9
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	383	64	48	37
Magnesium	ppm	3	2	<1	<1
Zinc	ppm	186	44	37	32
Phosphorus	ppm	2444	2153	2398	2754
Barium	ppm	1	0	0	2
Boron	ppm	138	109	154	169

Depot: VOLVO0093
Unique No: 10976323
Signed: Don Baldrige
Report Date: 15 Apr 2024



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GRAPHS

