



# CONSTRUCTION EQUIPMENT

659961 APTIM VOLVO A35G 340070 - REAR AXLE



**Sample No:** VCP428740  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:** 659961 APTIM



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## SAMPLE INFORMATION

Sample Number	VCP428740	VCP417308	VCP411063	VCP386155
Sample Date	12 Jan 2024	26 Jun 2023	19 Apr 2023	08 Nov 2022
Machine Hours	9239	8469	7985	6869
Oil Hours	1000	4000	2000	2000
Oil Changed	Not Changd	Changed	Not Changd	Changed
Sample Status	NORMAL	ATTENTION	ATTENTION	ATTENTION



## OIL CONDITION

Visc @ 40°C	cSt	274	61.2	61.0	61.6
		■	▲	▲	▲



## CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	■ 3	■ 25	■ 25	■ 27
Sodium	ppm	■ 0	■ 4	■ 2	■ 4
Potassium	ppm	■ 1	■ 3	■ 5	■ 2



## WEAR METALS

Iron	ppm	■ 24	■ 328	■ 326	■ 322
Copper	ppm	■ <1	■ 4	■ 4	■ 5
Lead	ppm	■ 0	■ 0	■ 0	■ 0
Tin	ppm	■ 0	■ 0	■ 0	■ 0
Aluminum	ppm	■ 2	■ 11	■ 8	■ 7
Chromium	ppm	■ <1	■ 4	■ 4	■ 4
Molybdenum	ppm	■ 15	■ 11	■ 10	■ 10
Nickel	ppm	■ 0	■ 1	■ 2	■ 2
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	■ <1	■ 20	■ 19	■ 19
Vanadium	ppm	0	0	0	0



## ADDITIVES

Calcium	ppm	■ 177	■ 111	■ 61	■ 68
Magnesium	ppm	■ 61	■ <1	■ 5	■ <1
Zinc	ppm	■ 121	■ 57	33	24
Phosphorus	ppm	■ 1041	1464	■ 1331	■ 1278
Barium	ppm	■ 10	■ 0	■ 0	■ 0
Boron	ppm	■ 167	■ 184	■ 167	■ 178

## 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.

**Depot:** VOLVO0093  
**Unique No:** 10886656  
**Signed:** Wes Davis  
**Report Date:** 21 Feb 2024



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## GRAPHS

