



# CONSTRUCTION EQUIPMENT

## 12082 VOLVO A35G 352057 - DIESEL ENGINE



**Sample No:** VCP439456  
**Oil Type:** MOBIL 15W40  
**Job No:** 12082



### SAMPLE INFORMATION

Sample Number	VCP439456	VCP439463	VCP411851	VCP416835
Sample Date	09 Feb 2024	19 Dec 2023	14 Aug 2023	01 Jun 2023
Machine Hours	2354	2380	2020	1800
Oil Hours	0	0	250	0
Oil Changed	N/A	N/A	Changed	N/A
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	11.9	12.5	12.7	13.3
Base Number (BN)	mg KOH/g	8.2	7.2	9.5	9.0
Oxidation (PA)	%	45	45	68	42



### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	55	62	48	54
Sulfation (PA)	%	45	47	55	45
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	1.5	<1.0	<1.0	<1.0
Silicon	ppm	4	4	5	5
Sodium	ppm	0	0	0	<1
Potassium	ppm	1	0	2	0



### WEAR METALS

Iron	ppm	5	6	5	4
Copper	ppm	2	70	3	5
Lead	ppm	0	0	<1	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	2	2	5	1
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	29	24	40	33
Nickel	ppm	<1	<1	2	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	2	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	<1	<1



### ADDITIVES

Calcium	ppm	1643	1852	1640	1843
Magnesium	ppm	369	378	448	379
Zinc	ppm	1046	1162	1108	1122
Phosphorus	ppm	955	1006	927	954
Barium	ppm	12	0	0	0
Boron	ppm	17	7	58	55

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

**Depot:** JAAPHI  
**Unique No:** 10876035  
**Signed:** Wes Davis  
**Report Date:** 15 Feb 2024



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## GRAPHS

