



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 352 198 - DIESEL ENGINE



**Sample No:** VCP447481  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP447481	VCP435446	VCP435151	VCP416161
Sample Date	07 Jun 2024	29 Apr 2024	02 Apr 2024	13 Feb 2024
Machine Hours	5957	5700	5479	5214
Oil Hours	257	221	265	258
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	12.5	12.7	12.7	12.8
Base Number (BN)	mg KOH/g	10.0	9.4	8.8	7.2
Oxidation (PA)	%	78	74	71	64

### 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	52	52	61	66
Sulfation (PA)	%	60	58	55	52
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	6	10
Sodium	ppm	2	2	2	5
Potassium	ppm	<1	<1	2	2



### WEAR METALS

Iron	ppm	4	2	4	5
Copper	ppm	<1	1	<1	1
Lead	ppm	0	0	<1	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	1	2	3	6
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	43	54	74	156
Nickel	ppm	<1	0	1	2
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	0	<1	0	<1
Vanadium	ppm	0	0	<1	<1



### ADDITIVES

Calcium	ppm	1887	1733	1498	1927
Magnesium	ppm	578	549	551	886
Zinc	ppm	1032	928	893	1241
Phosphorus	ppm	898	802	789	965
Barium	ppm	0	0	0	34
Boron	ppm	56	77	91	147

**Depot:** SCHGRE  
**Unique No:** 11084092  
**Signed:** Wes Davis  
**Report Date:** 19 Jun 2024



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## GRAPHS

