



# CONSTRUCTION EQUIPMENT

## 11719 VOLVO A40G 352005 - DIESEL ENGINE



**Sample No:** VCP439455  
**Oil Type:** MOBIL 15W40  
**Job No:** 11719



### SAMPLE INFORMATION

Sample Number	VCP439455	VCP413720	VCP422505	VCP367399
Sample Date	18 Dec 2023	29 Aug 2023	05 Jun 2023	28 Nov 2022
Machine Hours	3449	3205	3010	2725
Oil Hours	0	250	250	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

**DYER QUARRY**  
P.O. BOX 188, 1275 ROCK HOLLOW ROAD  
BIRDSBORO, PA  
US 19508  
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### OIL CONDITION

Visc @ 100°C	cSt	12.3	13.0	12.6	12.2
Base Number (BN)	mg KOH/g	7.6	7.8	10.8	11.4
Oxidation (PA)	%	39	39	81	82

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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	0.2
Nitration (PA)	%	50	48	53	61
Sulfation (PA)	%	43	43	63	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.6	<1.0	<1.0	<1.0
Silicon	ppm	3	4	3	8
Sodium	ppm	0	2	2	2
Potassium	ppm	0	<1	0	<1

### WEAR METALS

Iron	ppm	2	4	6	8
Copper	ppm	0	<1	1	1
Lead	ppm	0	0	0	1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	1	3	<1	1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	21	15	39	47
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0

### ADDITIVES

Calcium	ppm	1876	2191	1659	1695
Magnesium	ppm	293	154	466	550
Zinc	ppm	1122	1123	1001	1202
Phosphorus	ppm	955	970	885	1083
Barium	ppm	0	0	0	0
Boron	ppm	13	15	66	60

**Depot:** DYEBIR  
**Unique No:** 10802550  
**Signed:** Wes Davis  
**Report Date:** 26 Dec 2023



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## VOLVO GRAPHS

