



CONSTRUCTION EQUIPMENT

W07012289-1 VOLVO A40G 341458 - DIESEL ENGINE



Sample No: VCP399864
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: W07012289-1



SAMPLE INFORMATION

Sample Number	VCP399864	VCP367957	VCP273303	VCP259475
Sample Date	23 Feb 2023	03 Nov 2022	09 Apr 2021	24 Sep 2019
Machine Hours	6947	6944	4957	4452
Oil Hours	0	500	500	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

McClung-Logan Virginia LLC- RICHMOND
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 GLEN ALLEN, VA
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OIL CONDITION

Visc @ 100°C	cSt	13.4	12.6	12.7	13.2
Base Number (BN)	mg KOH/g	9.6	8.7	---	---
Oxidation (PA)	%	63	73	58	87



CONTAMINATION

Soot %	%	0.1	0.2	0.4	0.6
Nitration (PA)	%	54	83	84	77
Sulfation (PA)	%	54	59	60	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	5	3	6
Sodium	ppm	1	0	1	4
Potassium	ppm	<1	0	1	9



WEAR METALS

Iron	ppm	4	7	15	11
Copper	ppm	5	<1	18	2
Lead	ppm	<1	<1	1	0
Tin	ppm	0	<1	<1	0
Aluminum	ppm	2	3	0	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	51	54	12	38
Nickel	ppm	0	0	▲ 6	2
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1170	1161	2389	1639
Magnesium	ppm	710	756	130	551
Zinc	ppm	845	864	1075	836
Phosphorus	ppm	689	701	939	759
Barium	ppm	<1	0	0	0
Boron	ppm	53	27	13	16

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.

Depot: VOLVO8882
Unique No: 10350480
Signed: Wes Davis
Report Date: 27 Feb 2023



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VOLVO GRAPHS

