



CONSTRUCTION EQUIPMENT

W07013323 VOLVO A45G 342680 - DIESEL ENGINE



Sample No: VCP434912
Oil Type: MOBIL 15W40
Job No: W07013323



SAMPLE INFORMATION

Sample Number	VCP434912	VCP399857	VCP401290	VCP388498
Sample Date	01 Sep 2023	11 Apr 2023	18 Jan 2023	28 Oct 2022
Machine Hours	7062	5363	5920	5090
Oil Hours	500	500	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

McClung-Logan Virginia LLC- RICHMOND
1345 MOUNTAIN ROAD
GLEN ALLEN, VA
US 23060
Contact: KYLE RATLIFFE
KRATLIFFE@MCCLUNG-LOGAN.COM
T:
F: (804)266-1611



OIL CONDITION

Visc @ 100°C	cSt	13.1	13.1	13.0	13.1
Base Number (BN)	mg KOH/g	5.9	6.9	8.4	8.3
Oxidation (PA)	%	57	66	67	76



CONTAMINATION

Soot %	%	0.4	0.3	0.3	0.4
Nitration (PA)	%	78	74	77	88
Sulfation (PA)	%	53	50	55	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	2	3	4
Sodium	ppm	3	2	1	9
Potassium	ppm	1	0	0	0



WEAR METALS

Iron	ppm	7	5	3	7
Copper	ppm	1	<1	2	4
Lead	ppm	2	0	0	<1
Tin	ppm	<1	0	0	<1
Aluminum	ppm	2	1	1	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	82	51	50	49
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	2110	1193	1114	1316
Magnesium	ppm	143	783	702	689
Zinc	ppm	1208	889	772	857
Phosphorus	ppm	1011	698	636	702
Barium	ppm	0	0	0	0
Boron	ppm	44	35	36	20

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: 10646599
Signed: Wes Davis
Report Date: 15 Sep 2023



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VOLVO GRAPHS

