



CONSTRUCTION EQUIPMENT

VOLVO A40G 342110 - DIESEL ENGINE



Sample No: VCP417114
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP417114	VCP315969	VCP300324	VCP279840
Sample Date	16 Aug 2023	26 Jul 2021	11 Jan 2021	29 Jul 2020
Machine Hours	7194	3926	3210	2406
Oil Hours	1000	500	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT

5985 COURT STREET ROAD
 SYRACUSE, NY
 US 13206
 Contact: JIM STRIGLE
 JIM.STRIGLE@ALTG.COM
 T: (315)437-2611
 F: (315)434-9471



OIL CONDITION

Visc @ 100°C	cSt	13.3	12.4	12.4	12.8
Base Number (BN)	mg KOH/g	9.5	---	---	---
Oxidation (PA)	%	53	76	68	83



CONTAMINATION

Soot %	%	0.1	0.3	0.3	0.3
Nitration (PA)	%	43	83	81	78
Sulfation (PA)	%	48	61	58	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	5	5
Sodium	ppm	2	3	3	3
Potassium	ppm	<1	<1	15	0



WEAR METALS

Iron	ppm	2	12	11	12
Copper	ppm	<1	9	3	15
Lead	ppm	0	<1	<1	<1
Tin	ppm	<1	<1	0	0
Aluminum	ppm	0	2	2	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	58	38	19	36
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1136	1506	1542	1758
Magnesium	ppm	946	566	670	564
Zinc	ppm	1204	972	917	863
Phosphorus	ppm	998	807	844	754
Barium	ppm	0	0	0	0
Boron	ppm	13	54	37	29

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. Confirm oil type. The condition of the oil is acceptable for the time in service.

Depot: VOLV00142
Unique No: 10609096
Signed: Sean Felton
Report Date: 22 Aug 2023



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GRAPHS

