



CONSTRUCTION EQUIPMENT

VOLVO A40G 352909 - DIESEL ENGINE



Sample No: VCP443332
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP443332	VCP437881	VCP431824	---
Sample Date	02 Jul 2024	01 Mar 2024	28 Nov 2023	---
Machine Hours	4610	4219	3745	---
Oil Hours	0	500	0	---
Oil Changed	Changed	Changed	N/A	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	12.0	12.7	12.8	---
Base Number (BN)	mg KOH/g	9.9	9.1	9.5	---
Oxidation (PA)	%	68	76	80	---

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	---
Soot %	%	0.2	0.3	0.3	---
Nitration (PA)	%	56	68	63	---
Sulfation (PA)	%	55	58	61	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	0.3	<1.0	<1.0	---
Silicon	ppm	4	5	6	---
Sodium	ppm	1	2	6	---
Potassium	ppm	1	2	53	---



WEAR METALS

Iron	ppm	4	8	55	---
Copper	ppm	5	2	94	---
Lead	ppm	0	<1	0	---
Tin	ppm	0	1	2	---
Aluminum	ppm	2	5	23	---
Chromium	ppm	<1	<1	4	---
Molybdenum	ppm	40	43	62	---
Nickel	ppm	<1	3	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	<1	2	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	1413	1568	1274	---
Magnesium	ppm	555	565	863	---
Zinc	ppm	1078	1108	1150	---
Phosphorus	ppm	901	926	923	---
Barium	ppm	0	0	0	---
Boron	ppm	48	27	8	---

Depot: VOLVO0090
Unique No: 11110461
Signed: Wes Davis
Report Date: 08 Jul 2024



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GRAPHS

