



CONSTRUCTION EQUIPMENT

VOLVO A45G 352818 - DIESEL ENGINE



Sample No: VCP438583
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP438583	VCP426559	VCP424763	---
Sample Date	21 Mar 2024	27 Nov 2023	25 Jul 2023	---
Machine Hours	4114	3505	2866	---
Oil Hours	0	0	0	---
Oil Changed	Changed	N/A	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.6	12.7	---
Base Number (BN)	mg KOH/g	9.6	9.9	10.0	---
Oxidation (PA)	%	79	79	77	---

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.5	0.5	0.4	---
Nitration (PA)	%	63	61	58	---
Sulfation (PA)	%	60	61	60	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	4	5	6	---
Sodium	ppm	2	2	3	---
Potassium	ppm	0	0	0	---



WEAR METALS

Iron	ppm	8	8	10	---
Copper	ppm	<1	<1	1	---
Lead	ppm	0	<1	<1	---
Tin	ppm	0	<1	<1	---
Aluminum	ppm	2	2	2	---
Chromium	ppm	0	0	0	---
Molybdenum	ppm	46	52	47	---
Nickel	ppm	<1	0	<1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	0	<1	---
Vanadium	ppm	0	0	<1	---



ADDITIVES

Calcium	ppm	1759	1911	1733	---
Magnesium	ppm	495	579	528	---
Zinc	ppm	1086	1313	1108	---
Phosphorus	ppm	934	1073	921	---
Barium	ppm	0	0	0	---
Boron	ppm	35	40	49	---

Depot: VOLVO0090
Unique No: 10941513
Signed: Wes Davis
Report Date: 26 Mar 2024



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GRAPHS

