



CONSTRUCTION EQUIPMENT

SPM645532-10 VOLVO A45G 352836 - DIESEL ENGINE



Sample No: VCP401369
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM645532-10



SAMPLE INFORMATION

Sample Number	VCP401369	VCP402222	---	---
Sample Date	05 Dec 2023	19 Sep 2023	---	---
Machine Hours	3190	2651	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	ATTENTION	---	---

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OIL CONDITION

Visc @ 100°C	cSt	12.7	▲ 12.2	---	---
Base Number (BN)	mg KOH/g	9.9	■ 9.0	---	---
Oxidation (PA)	%	76	72	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.5	■ 0	---	---
Nitration (PA)	%	56	66	---	---
Sulfation (PA)	%	61	68	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	■ 1.2	---	---
Silicon	ppm	4	■ 6	---	---
Sodium	ppm	3	■ 4	---	---
Potassium	ppm	<1	■ 1	---	---

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.



WEAR METALS

Iron	ppm	11	■ 17	---	---
Copper	ppm	17	■ 102	---	---
Lead	ppm	0	■ 1	---	---
Tin	ppm	0	■ 2	---	---
Aluminum	ppm	5	■ 3	---	---
Chromium	ppm	<1	■ <1	---	---
Molybdenum	ppm	53	■ 50	---	---
Nickel	ppm	1	■ 4	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	■ 0	---	---
Manganese	ppm	0	■ 1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1633	■ 1749	---	---
Magnesium	ppm	508	■ 482	---	---
Zinc	ppm	1121	■ 1152	---	---
Phosphorus	ppm	910	■ 956	---	---
Barium	ppm	0	■ 0	---	---
Boron	ppm	44	■ 16	---	---

Depot: VOLVO0090
Unique No: 10780115
Signed: Wes Davis
Report Date: 12 Dec 2023



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GRAPHS

