



CONSTRUCTION EQUIPMENT

SPM645219-10 VOLVO A45G 353334 - DIESEL ENGINE



Sample No: VCP400663
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM645219-10



SAMPLE INFORMATION

Sample Number	VCP400663	VCP323824	---	---
Sample Date	05 Dec 2023	12 Sep 2023	---	---
Machine Hours	2529	1931	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.7	---	---
Base Number (BN)	mg KOH/g	7.2	8.6	---	---
Oxidation (PA)	%	86	78	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.6	0.4	---	---
Nitration (PA)	%	83	68	---	---
Sulfation (PA)	%	65	61	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	6	8	---	---
Sodium	ppm	2	3	---	---
Potassium	ppm	0	<1	---	---



WEAR METALS

Iron	ppm	14	10	---	---
Copper	ppm	15	15	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	<1	1	---	---
Aluminum	ppm	<1	1	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	49	52	---	---
Nickel	ppm	3	2	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	1703	1957	---	---
Magnesium	ppm	492	563	---	---
Zinc	ppm	1109	1232	---	---
Phosphorus	ppm	907	994	---	---
Barium	ppm	0	0	---	---
Boron	ppm	13	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: VOLVO0090
Unique No: 10780108
Signed: Wes Davis
Report Date: 12 Dec 2023



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GRAPHS

