



CONSTRUCTION EQUIPMENT

SPM660778-10 VOLVO A45G 342658 - DIESEL ENGINE



Sample No: VCP437735
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM660778-10



SAMPLE INFORMATION

Sample Number	VCP437735	VCP441195	VCP359188	---
Sample Date	02 Feb 2024	01 Feb 2024	28 Apr 2022	---
Machine Hours	5643	5639	3775	---
Oil Hours	0	0	0	---
Oil Changed	N/A	N/A	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	12.2	13.2	13.3	---
Base Number (BN)	mg KOH/g	4.7	9.3	11.1	---
Oxidation (PA)	%	95	81	88	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected 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 %	%	0.4	0.5	0.5	---
Nitration (PA)	%	99	68	72	---
Sulfation (PA)	%	71	62	67	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	1.0	<1.0	<1.0	---
Silicon	ppm	11	5	6	---
Sodium	ppm	3	2	3	---
Potassium	ppm	<1	0	0	---



WEAR METALS

Iron	ppm	27	10	11	---
Copper	ppm	35	2	7	---
Lead	ppm	<1	0	1	---
Tin	ppm	2	<1	<1	---
Aluminum	ppm	7	4	2	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	58	42	42	---
Nickel	ppm	<1	<1	1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	1	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1618	1704	1790	---
Magnesium	ppm	519	518	548	---
Zinc	ppm	1073	1157	1161	---
Phosphorus	ppm	853	987	976	---
Barium	ppm	<1	0	0	---
Boron	ppm	8	28	44	---

Depot: VOLVO0093
Unique No: 10875355
Signed: Wes Davis
Report Date: 15 Feb 2024



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GRAPHS

