



CONSTRUCTION EQUIPMENT

VOLVO A45G 353131 - DIESEL ENGINE



Sample No: VCP395878
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP395878	VCP423310	VCP393649	---
Sample Date	28 Sep 2023	23 May 2023	27 Dec 2022	---
Machine Hours	2371	1667	998	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	N/A	---
Sample Status	NORMAL	ABNORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	12.9	12.9	12.5	---
Base Number (BN)	mg KOH/g	8.3	9.2	9.5	---
Oxidation (PA)	%	83	88	84	---



CONTAMINATION

Soot %	%	0.6	0.5	0.3	---
Nitration (PA)	%	77	77	73	---
Sulfation (PA)	%	63	68	66	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	5	9	7	---
Sodium	ppm	5	3	2	---
Potassium	ppm	3	0	0	---



WEAR METALS

Iron	ppm	11	18	6	---
Copper	ppm	25	75	180	---
Lead	ppm	2	<1	3	---
Tin	ppm	1	1	2	---
Aluminum	ppm	1	1	1	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	38	50	60	---
Nickel	ppm	3	▲ 9	5	---
Titanium	ppm	0	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	1	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1294	1803	1736	---
Magnesium	ppm	440	538	472	---
Zinc	ppm	882	1137	1097	---
Phosphorus	ppm	748	925	876	---
Barium	ppm	0	0	0	---
Boron	ppm	13	26	33	---

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: 10672664
Signed: Wes Davis
Report Date: 03 Oct 2023



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GRAPHS

