



CONSTRUCTION EQUIPMENT

VOLVO A45G 353 133 - DIESEL ENGINE



Sample No: VCP443319
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP443319	VCP436256	VCP403721	---
Sample Date	30 May 2024	15 Jan 2024	07 Sep 2023	---
Machine Hours	3130	2427	1639	---
Oil Hours	0	0	0	---
Oil Changed	Changed	N/A	Changed	---
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.4	12.1	---
Base Number (BN)	mg KOH/g	8.9	8.9	9.3	---
Oxidation (PA)	%	75	80	74	---

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Valve wear is indicated. 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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.5	0.5	0.5	---
Nitration (PA)	%	65	72	58	---
Sulfation (PA)	%	58	60	59	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	0.4	---
Silicon	ppm	6	11	30	---
Sodium	ppm	<1	2	4	---
Potassium	ppm	2	2	2	---



WEAR METALS

Iron	ppm	14	16	26	---
Copper	ppm	3	5	8	---
Lead	ppm	<1	2	<1	---
Tin	ppm	2	2	4	---
Aluminum	ppm	2	2	2	---
Chromium	ppm	1	1	2	---
Molybdenum	ppm	48	53	64	---
Nickel	ppm	10	11	10	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	1	2	---
Vanadium	ppm	0	0	<1	---



ADDITIVES

Calcium	ppm	1593	1612	1909	---
Magnesium	ppm	552	518	546	---
Zinc	ppm	1156	1140	1196	---
Phosphorus	ppm	996	963	963	---
Barium	ppm	0	0	0	---
Boron	ppm	33	29	36	---

Depot: VOLVO0090
Unique No: 11059539
Signed: Sean Felton
Report Date: 04 Jun 2024



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GRAPHS

