



CONSTRUCTION EQUIPMENT

VOLVO A45G 35323 - DIESEL ENGINE



Sample No: VCP437754
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP437754	VCP435533	VCP386696	---
Sample Date	12 Apr 2024	06 Jan 2024	30 Aug 2023	---
Machine Hours	2288	1771	1291	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ATTENTION	ATTENTION	ATTENTION	---

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OIL CONDITION

Visc @ 100°C	cSt	12.3	12.3	12.1	---
Base Number (BN)	mg KOH/g	10.2	10.0	9.0	---
Oxidation (PA)	%	77	79	78	---

Diagnosis

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.2	0.2	0.2	---
Nitration (PA)	%	53	55	63	---
Sulfation (PA)	%	60	60	62	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	0.2	---
Silicon	ppm	6	6	11	---
Sodium	ppm	2	2	3	---
Potassium	ppm	2	0	<1	---



WEAR METALS

Iron	ppm	9	8	12	---
Copper	ppm	7	11	52	---
Lead	ppm	6	<1	0	---
Tin	ppm	1	1	2	---
Aluminum	ppm	2	<1	2	---
Chromium	ppm	<1	0	<1	---
Molybdenum	ppm	49	51	53	---
Nickel	ppm	1	1	2	---
Titanium	ppm	<1	0	0	---
Silver	ppm	<1	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	<1	<1	0	---



ADDITIVES

Calcium	ppm	1662	1635	1812	---
Magnesium	ppm	489	484	508	---
Zinc	ppm	1112	1100	1186	---
Phosphorus	ppm	981	929	967	---
Barium	ppm	0	0	0	---
Boron	ppm	55	49	42	---

Depot: VOLVO0090
Unique No: 10989465
Signed: Don Baldrige
Report Date: 23 Apr 2024



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GRAPHS

