



CONSTRUCTION EQUIPMENT

VOLVO A45G 353251 - DIESEL ENGINE



Sample No: VCP437751
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP437751	VCP396607	VCP415847	---
Sample Date	25 Jan 2024	24 Oct 2023	20 Jul 2023	---
Machine Hours	3274	2633	2242	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	ATTENTION	ATTENTION	---

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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.3	12.1	---
Base Number (BN)	mg KOH/g	9.8	9.7	10.1	---
Oxidation (PA)	%	66	80	77	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.3	0.2	---
Nitration (PA)	%	47	63	54	---
Sulfation (PA)	%	54	61	59	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	1.0	---
Silicon	ppm	3	5	4	---
Sodium	ppm	2	3	2	---
Potassium	ppm	2	2	0	---



WEAR METALS

Iron	ppm	2	8	5	---
Copper	ppm	0	4	5	---
Lead	ppm	<1	<1	<1	---
Tin	ppm	<1	1	<1	---
Aluminum	ppm	2	2	<1	---
Chromium	ppm	0	<1	0	---
Molybdenum	ppm	51	65	69	---
Nickel	ppm	0	1	<1	---
Titanium	ppm	0	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	<1	<1	---



ADDITIVES

Calcium	ppm	1390	1545	1724	---
Magnesium	ppm	718	506	519	---
Zinc	ppm	1177	1075	1096	---
Phosphorus	ppm	1019	966	913	---
Barium	ppm	0	0	0	---
Boron	ppm	41	36	60	---

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: 10849248
Signed: Wes Davis
Report Date: 30 Jan 2024



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GRAPHS

