



CONSTRUCTION EQUIPMENT

VOLVO A45G 353251 - DIESEL ENGINE



Sample No: VCP396607
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP396607	VCP415847	---	---
Sample Date	24 Oct 2023	20 Jul 2023	---	---
Machine Hours	2633	2242	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ATTENTION	ATTENTION	---	---

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OIL CONDITION

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

Diagnosis

No corrective action is recommended at this time. 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. No other contaminants were detected 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

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



WEAR METALS

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



ADDITIVES

Calcium	ppm	■ 1545	■ 1724	---	---
Magnesium	ppm	■ 506	■ 519	---	---
Zinc	ppm	■ 1075	■ 1096	---	---
Phosphorus	ppm	■ 966	■ 913	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 36	■ 60	---	---

Depot: VOLVO0090
Unique No: 10713546
Signed: Don Baldrige
Report Date: 30 Oct 2023



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GRAPHS

