



CONSTRUCTION EQUIPMENT

VOLVO A45G 353591 - DIESEL ENGINE



Sample No: VCP454375
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP454375	VCP439014	VCP434306	---
Sample Date	02 May 2024	27 Dec 2023	14 Nov 2023	---
Machine Hours	2216	1377	1099	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	MARGINAL	NORMAL	---

ALTA EQUIPMENT COMPANY
 5151 DR MARTIN LUTHER KING BLVD
 FORT MYERS, FL
 US 33905
 Contact: TODD LARK
 tlark@altaequipfl.com
 T:
 F: (239)481-3302



OIL CONDITION

Visc @ 100°C	cSt	■ 12.5	▲ 12.3	■ 11.9	---
Base Number (BN)	mg KOH/g	■ 8.1	■ 8.8	■ 7.7	---
Oxidation (PA)	%	67	73	57	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	■ 0.4	■ 0.3	■ 0.4	---
Nitration (PA)	%	65	51	56	---
Sulfation (PA)	%	57	58	56	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	■ 0.4	---
Silicon	ppm	■ 6	■ 6	■ 9	---
Sodium	ppm	■ 2	■ 1	■ 0	---
Potassium	ppm	■ 2	■ 0	■ 2	---



WEAR METALS

Iron	ppm	■ 13	■ 5	■ 11	---
Copper	ppm	■ 15	■ 18	■ 111	---
Lead	ppm	■ <1	■ 0	■ <1	---
Tin	ppm	■ 1	■ <1	■ 1	---
Aluminum	ppm	■ 2	■ 1	■ 1	---
Chromium	ppm	■ <1	■ <1	■ <1	---
Molybdenum	ppm	■ 48	■ 45	■ 63	---
Nickel	ppm	■ 4	■ 1	■ 2	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	■ 0	■ 0	■ 0	---
Manganese	ppm	■ <1	■ <1	■ <1	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	■ 1668	■ 1669	■ 1814	---
Magnesium	ppm	■ 485	■ 463	■ 321	---
Zinc	ppm	■ 1119	■ 1104	■ 1203	---
Phosphorus	ppm	■ 956	■ 946	■ 1029	---
Barium	ppm	■ 0	■ 0	■ 0	---
Boron	ppm	■ 23	■ 43	■ <1	---

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: 11015846
Signed: Wes Davis
Report Date: 08 May 2024



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GRAPHS

