



CONSTRUCTION EQUIPMENT

VOLVO A45G 342666 - DIESEL ENGINE



Sample No: VCP432129
Oil Type: DIESEL ENGINE OIL SAE 40
Job No:



SAMPLE INFORMATION

Sample Number	VCP432129	VCP313562	---	---
Sample Date	08 Nov 2023	06 May 2021	---	---
Machine Hours	0	2142	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	ATTENTION	---	---

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
 8418 PALM RIVER ROAD
 TAMPA, FL
 US 33619
 Contact: KENNY HANEY
 khaney@flaglerce.com
 T: (813)630-0077
 F: (813)630-2233



OIL CONDITION

Visc @ 100°C	cSt	13.4	▲ 11.8	---	---
Base Number (BN)	mg KOH/g	9.1	---	---	---
Oxidation (PA)	%	92	96	---	---

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

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.



CONTAMINATION

Soot %	%	0.5	0.4	---	---
Nitration (PA)	%	83	83	---	---
Sulfation (PA)	%	71	72	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	0.3	---	---
Silicon	ppm	6	5	---	---
Sodium	ppm	3	4	---	---
Potassium	ppm	0	<1	---	---



WEAR METALS

Iron	ppm	16	15	---	---
Copper	ppm	2	112	---	---
Lead	ppm	3	<1	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	3	0	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	56	43	---	---
Nickel	ppm	<1	<1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1903	1955	---	---
Magnesium	ppm	576	494	---	---
Zinc	ppm	1366	1010	---	---
Phosphorus	ppm	1097	902	---	---
Barium	ppm	0	0	---	---
Boron	ppm	18	27	---	---

Depot: VOLVO0093
Unique No: 10736472
Signed: Wes Davis
Report Date: 10 Nov 2023



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GRAPHS

