



CONSTRUCTION EQUIPMENT

SWA553564-10 VOLVO A45G 752043 - DIESEL ENGINE



Sample No: VCP455389
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA553564-10



SAMPLE INFORMATION

Sample Number	VCP455389	VCP437573	VCP439069	---
Sample Date	04 May 2024	16 Apr 2024	27 Dec 2023	---
Machine Hours	1761	1632	931	---
Oil Hours	0	0	0	---
Oil Changed	N/A	Changed	Changed	---
Sample Status	NORMAL	ATTENTION	ATTENTION	---

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	13.1	12.1	11.8	---
Base Number (BN)	mg KOH/g	9.1	8.6	8.1	---
Oxidation (PA)	%	60	75	55	---

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.4	0.4	0.2	---
Nitration (PA)	%	48	63	52	---
Sulfation (PA)	%	56	60	52	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	0.4	---
Silicon	ppm	4	7	7	---
Sodium	ppm	1	3	<1	---
Potassium	ppm	1	2	0	---



WEAR METALS

Iron	ppm	2	11	8	---
Copper	ppm	5	43	71	---
Lead	ppm	1	<1	<1	---
Tin	ppm	<1	2	2	---
Aluminum	ppm	1	2	1	---
Chromium	ppm	0	1	<1	---
Molybdenum	ppm	42	50	63	---
Nickel	ppm	0	2	1	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	0	<1	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	<1	<1	---



ADDITIVES

Calcium	ppm	1612	1648	1808	---
Magnesium	ppm	493	456	368	---
Zinc	ppm	1108	1083	1234	---
Phosphorus	ppm	940	918	1054	---
Barium	ppm	0	0	0	---
Boron	ppm	52	27	10	---

Depot: VOLVO0090
Unique No: 11016896
Signed: Wes Davis
Report Date: 08 May 2024



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GRAPHS

