



CONSTRUCTION EQUIPMENT

VOLVO A45G 352836 - DIESEL ENGINE



Sample No: VCP455334
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP455334	VCP401369	VCP402222	---
Sample Date	21 Mar 2024	05 Dec 2023	19 Sep 2023	---
Machine Hours	3863	3190	2651	---
Oil Hours	0	0	0	---
Oil Changed	Changed	N/A	Changed	---
Sample Status	NORMAL	NORMAL	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	12.4	12.7	12.2	---
Base Number (BN)	mg KOH/g	9.1	9.9	9.0	---
Oxidation (PA)	%	77	76	72	---

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 %	%	0.5	0.5	0	---
Nitration (PA)	%	61	56	66	---
Sulfation (PA)	%	60	61	68	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	1.2	---
Silicon	ppm	4	4	6	---
Sodium	ppm	2	3	4	---
Potassium	ppm	0	<1	1	---



WEAR METALS

Iron	ppm	10	11	17	---
Copper	ppm	9	17	102	---
Lead	ppm	<1	0	1	---
Tin	ppm	0	0	2	---
Aluminum	ppm	6	5	3	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	44	53	50	---
Nickel	ppm	1	1	4	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	0	1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1792	1633	1749	---
Magnesium	ppm	497	508	482	---
Zinc	ppm	1102	1121	1152	---
Phosphorus	ppm	946	910	956	---
Barium	ppm	0	0	0	---
Boron	ppm	36	44	16	---

Depot: VOLVO0090
Unique No: 10941510
Signed: Jonathan Hester
Report Date: 27 Mar 2024



CONSTRUCTION EQUIPMENT



GRAPHS

