



CONSTRUCTION EQUIPMENT

VOLVO A45G 752042 - DIESEL ENGINE



Sample No: VCP436663
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP436663	VCP439075	---	---
Sample Date	24 Apr 2024	29 Dec 2023	---	---
Machine Hours	1720	1025	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ATTENTION	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	12.2	12.1	---	---
Base Number (BN)	mg KOH/g	9.0	7.8	---	---
Oxidation (PA)	%	76	57	---	---

Diagnosis

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. There is no indication of any contamination 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

Water	%	NEG	NEG	---	---
Soot %	%	0.3	0.3	---	---
Nitration (PA)	%	63	55	---	---
Sulfation (PA)	%	60	54	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	0.6	---	---
Silicon	ppm	8	8	---	---
Sodium	ppm	4	1	---	---
Potassium	ppm	2	0	---	---



WEAR METALS

Iron	ppm	15	9	---	---
Copper	ppm	22	65	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	2	2	---	---
Aluminum	ppm	2	1	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	59	63	---	---
Nickel	ppm	3	<1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	<1	<1	---	---



ADDITIVES

Calcium	ppm	2126	1849	---	---
Magnesium	ppm	612	377	---	---
Zinc	ppm	1450	1272	---	---
Phosphorus	ppm	1225	1057	---	---
Barium	ppm	0	0	---	---
Boron	ppm	43	3	---	---

Depot: VOLVO0090
Unique No: 11004821
Signed: Don Baldrige
Report Date: 01 May 2024



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GRAPHS

