



CONSTRUCTION EQUIPMENT

728854 ATLAS ORGANIC VOLVO L120H 633210 - DIESEL ENGINE



Sample No: VCP443944
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 728854 ATLAS ORGANIC



SAMPLE INFORMATION

Sample Number	VCP443944	VCP444166	VCP417602	---
Sample Date	11 Jun 2024	05 Mar 2024	20 Sep 2023	---
Machine Hours	4419	3647	2544	---
Oil Hours	500	500	544	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
 8418 PALM RIVER ROAD
 TAMPA, FL
 US 33619
 Contact: JOHN FARDELLA
 john.fardella@altg.com
 T: (813)630-0077
 F: (813)630-2233



OIL CONDITION

Visc @ 100°C	cSt	13.0	13.3	13.6	---
Base Number (BN)	mg KOH/g	9.9	10.2	9.4	---
Oxidation (PA)	%	71	79	57	---

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 %	%	0.3	0.2	0.2	---
Nitration (PA)	%	68	62	57	---
Sulfation (PA)	%	57	58	52	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	4	5	4	---
Sodium	ppm	2	<1	0	---
Potassium	ppm	0	2	1	---



WEAR METALS

Iron	ppm	14	10	11	---
Copper	ppm	1	1	1	---
Lead	ppm	0	<1	1	---
Tin	ppm	0	1	<1	---
Aluminum	ppm	4	3	2	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	45	45	61	---
Nickel	ppm	0	<1	<1	---
Titanium	ppm	0	<1	0	---
Silver	ppm	0	<1	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	1585	1591	1107	---
Magnesium	ppm	640	522	841	---
Zinc	ppm	1116	1078	1227	---
Phosphorus	ppm	967	892	1005	---
Barium	ppm	0	0	2	---
Boron	ppm	20	32	<1	---

Depot: VOLVO0093
Unique No: 11126321
Signed: Wes Davis
Report Date: 17 Jul 2024



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GRAPHS

