



CONSTRUCTION EQUIPMENT

728856 ATLAS ORGANIC VOLVO L120H 632574 - DIESEL ENGINE



Sample No: VCP443584
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 728856 ATLAS ORGANIC



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SAMPLE INFORMATION

Sample Number	VCP443584	VCP438341	VCP436067	---
Sample Date	11 Jun 2024	05 Mar 2024	19 Sep 2023	---
Machine Hours	9732	3524	8606	---
Oil Hours	500	500	500	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---



OIL CONDITION

Visc @ 100°C	cSt	13.4	13.6	13.9	---
Base Number (BN)	mg KOH/g	9.8	10.2	8.2	---
Oxidation (PA)	%	76	80	70	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.6	0.4	0.6	---
Nitration (PA)	%	78	68	84	---
Sulfation (PA)	%	60	60	59	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	5	5	4	---
Sodium	ppm	3	2	0	---
Potassium	ppm	<1	1	2	---



WEAR METALS

Iron	ppm	14	11	19	---
Copper	ppm	<1	1	2	---
Lead	ppm	0	<1	2	---
Tin	ppm	0	1	<1	---
Aluminum	ppm	7	10	5	---
Chromium	ppm	<1	<1	1	---
Molybdenum	ppm	47	46	66	---
Nickel	ppm	0	<1	<1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	1653	1596	1186	---
Magnesium	ppm	677	611	869	---
Zinc	ppm	1174	1178	1299	---
Phosphorus	ppm	991	964	1054	---
Barium	ppm	0	0	1	---
Boron	ppm	18	28	<1	---

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.

Depot: VOLVO0093
Unique No: 11126330
Signed: Wes Davis
Report Date: 17 Jul 2024



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GRAPHS

