



CONSTRUCTION EQUIPMENT

661038 ATLAS VOLVO L70H 623710 - DIESEL ENGINE



Sample No: VCP437954
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 661038 ATLAS



SAMPLE INFORMATION

Sample Number	VCP437954	VCP412068	VCP425062	---
Sample Date	22 Jan 2024	12 Oct 2023	29 Jun 2023	---
Machine Hours	9343	8743	8172	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.6	13.3	14.1	---
Base Number (BN)	mg KOH/g	9.6	10.1	7.4	---
Oxidation (PA)	%	84	84	68	---

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	0.6	0.4	---
Nitration (PA)	%	68	71	61	---
Sulfation (PA)	%	63	63	62	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	5	6	4	---
Sodium	ppm	2	2	2	---
Potassium	ppm	1	0	3	---



WEAR METALS

Iron	ppm	8	11	8	---
Copper	ppm	0	1	<1	---
Lead	ppm	<1	0	0	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	7	5	3	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	48	46	87	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	<1	---



ADDITIVES

Calcium	ppm	1651	1629	1497	---
Magnesium	ppm	513	450	411	---
Zinc	ppm	1192	1031	1298	---
Phosphorus	ppm	998	850	1042	---
Barium	ppm	0	0	<1	---
Boron	ppm	113	33	322	---

Depot: VOLVO0096
Unique No: 10849237
Signed: Wes Davis
Report Date: 30 Jan 2024



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GRAPHS

