



CONSTRUCTION EQUIPMENT

620459 ATLAS ORG VOLVO L70H 623710 - DIESEL ENGINE



Sample No: VCP412068
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 620459 ATLAS ORG



SAMPLE INFORMATION

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

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OIL CONDITION

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

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



WEAR METALS

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



ADDITIVES

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

Depot: VOLVO0096
Unique No: 10698236
Signed: Wes Davis
Report Date: 17 Oct 2023



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GRAPHS

