



CONSTRUCTION EQUIPMENT

620458 ATLAS ORG VOLVO L90H 623733 - DIESEL ENGINE



Sample No: VCP440988
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 620458 ATLAS ORG



SAMPLE INFORMATION

Sample Number	VCP440988	VCP425449	VCP393579	VCP360654
Sample Date	12 Oct 2023	29 Jun 2023	28 Mar 2023	14 Apr 2022
Machine Hours	7240	6673	11120	9196
Oil Hours	0	0	1000	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.7	█ 14.3	█ 15.6	█ 14.2
Base Number (BN)	mg KOH/g	█ 9.1	█ 6.6	█ 8.0	█ 11.1
Oxidation (PA)	%	83	80	97	98



CONTAMINATION

Soot %	%	█ 0.4	█ 0.5	▲ 3.1	█ 0.4
Nitration (PA)	%	73	77	122	94
Sulfation (PA)	%	63	67	81	68
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	█ 7	█ 6	▲ 22	█ 6
Sodium	ppm	█ 2	█ 2	█ 3	█ 3
Potassium	ppm	█ 0	█ 2	█ 2	█ 4



WEAR METALS

Iron	ppm	█ 9	█ 12	█ 59	█ 10
Copper	ppm	█ <1	█ <1	█ 5	█ <1
Lead	ppm	█ 0	█ 0	█ <1	█ 2
Tin	ppm	█ <1	█ <1	█ 3	█ <1
Aluminum	ppm	█ 2	█ 5	▲ 13	█ 5
Chromium	ppm	█ <1	█ <1	█ 4	█ 1
Molybdenum	ppm	█ 58	█ 96	█ 50	█ 40
Nickel	ppm	█ 0	█ <1	█ <1	█ <1
Titanium	ppm	0	0	5	<1
Silver	ppm	█ 0	█ 0	█ 0	█ 5
Manganese	ppm	█ <1	█ <1	█ <1	█ <1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	█ 1574	█ 1605	█ 1733	█ 1898
Magnesium	ppm	█ 417	█ 468	█ 623	█ 610
Zinc	ppm	█ 1055	█ 1454	█ 1246	█ 1170
Phosphorus	ppm	█ 886	█ 1158	█ 1024	█ 989
Barium	ppm	█ 0	█ 0	█ 2	█ 0
Boron	ppm	100	█ 214	█ 16	█ 29

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: VOLVO0096
Unique No: 10698251
Signed: Wes Davis
Report Date: 17 Oct 2023



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GRAPHS

