



CONSTRUCTION EQUIPMENT

687942 ATLAS ORGANIC VOLVO L70H 623753 - DIESEL ENGINE



Sample No: VCP455073
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 687942 ATLAS ORGANIC



SAMPLE INFORMATION

Sample Number	VCP455073	VCP432903	VCP418336	VCP417835
Sample Date	13 Mar 2024	21 Dec 2023	12 Sep 2023	29 Jun 2023
Machine Hours	8707	8081	7300	6718
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.1	13.4	13.3	13.9
Base Number (BN)	mg KOH/g	10.7	10.2	9.8	7.6
Oxidation (PA)	%	81	83	78	66

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	NEG
Soot %	%	0.4	0.6	0.5	0.4
Nitration (PA)	%	61	70	62	55
Sulfation (PA)	%	60	61	60	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	6	4
Sodium	ppm	32	2	2	1
Potassium	ppm	2	0	<1	1



WEAR METALS

Iron	ppm	8	10	9	6
Copper	ppm	2	<1	<1	<1
Lead	ppm	<1	<1	<1	0
Tin	ppm	<1	1	<1	0
Aluminum	ppm	6	7	4	4
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	42	49	49	88
Nickel	ppm	<1	0	<1	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1681	1856	1640	1483
Magnesium	ppm	498	592	482	431
Zinc	ppm	1130	1266	1160	1377
Phosphorus	ppm	967	1053	944	1114
Barium	ppm	0	0	0	0
Boron	ppm	32	25	42	380

Depot: VOLVO0096
Unique No: 10937618
Signed: Wes Davis
Report Date: 21 Mar 2024



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GRAPHS

