



CONSTRUCTION EQUIPMENT

647199 ATLAS ORG VOLVO L70H 623753 - DIESEL ENGINE



Sample No: VCP432903
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 647199 ATLAS ORG



SAMPLE INFORMATION

Sample Number	VCP432903	VCP418336	VCP417835	VCP272246
Sample Date	21 Dec 2023	12 Sep 2023	29 Jun 2023	27 May 2020
Machine Hours	8081	7300	6718	576
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	13.4	13.3	13.9	12.5
Base Number (BN)	mg KOH/g	10.2	9.8	7.6	---
Oxidation (PA)	%	83	78	66	75

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 %	%	0.6	0.5	0.4	0.3
Nitration (PA)	%	70	62	55	58
Sulfation (PA)	%	61	60	60	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	4	18
Sodium	ppm	2	2	1	4
Potassium	ppm	0	<1	1	3



WEAR METALS

Iron	ppm	10	9	6	40
Copper	ppm	<1	<1	<1	5
Lead	ppm	<1	<1	0	<1
Tin	ppm	1	<1	0	2
Aluminum	ppm	7	4	4	33
Chromium	ppm	<1	<1	<1	6
Molybdenum	ppm	49	49	88	36
Nickel	ppm	0	<1	0	<1
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	5
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1856	1640	1483	1577
Magnesium	ppm	592	482	431	638
Zinc	ppm	1266	1160	1377	889
Phosphorus	ppm	1053	944	1114	847
Barium	ppm	0	0	0	2
Boron	ppm	25	42	380	31

Depot: VOLVO0096
Unique No: 10808098
Signed: Wes Davis
Report Date: 02 Jan 2024



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GRAPHS

