



CONSTRUCTION EQUIPMENT

568171 ATLAS VOLVO L90H 623733 - DIESEL ENGINE



Sample No: VCP425449
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 568171 ATLAS



SAMPLE INFORMATION

Sample Number	VCP425449	VCP393579	VCP360654	VCP310131
Sample Date	29 Jun 2023	28 Mar 2023	14 Apr 2022	07 Jul 2021
Machine Hours	6673	11120	9196	7801
Oil Hours	0	1000	500	600
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

ALTA EQUIPMENT/FLAGLER EQUIPMENT LLC
 9601 BOGGY CREEK RD
 ORLANDO, FL
 US 32824
 Contact: Robert LaPlante
 robert.laplante@altg.com
 T: (407)508-9736
 F: (407)659-8720



OIL CONDITION

Visc @ 100°C	cSt	14.3	15.6	14.2	14.9
Base Number (BN)	mg KOH/g	6.6	8.0	11.1	---
Oxidation (PA)	%	80	97	98	100



CONTAMINATION

Soot %	%	0.5	3.1	0.4	0.7
Nitration (PA)	%	77	122	94	126
Sulfation (PA)	%	67	81	68	76
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	22	6	5
Sodium	ppm	2	3	3	2
Potassium	ppm	2	2	4	<1



WEAR METALS

Iron	ppm	12	59	10	19
Copper	ppm	<1	5	<1	2
Lead	ppm	0	<1	2	3
Tin	ppm	<1	3	<1	<1
Aluminum	ppm	5	13	5	4
Chromium	ppm	<1	4	1	2
Molybdenum	ppm	96	50	40	36
Nickel	ppm	<1	<1	<1	0
Titanium	ppm	0	5	<1	<1
Silver	ppm	0	0	5	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1605	1733	1898	1563
Magnesium	ppm	468	623	610	696
Zinc	ppm	1454	1246	1170	1116
Phosphorus	ppm	1158	1024	989	866
Barium	ppm	0	2	0	0
Boron	ppm	214	16	29	24

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: 10545739
Signed: Don Baldrige
Report Date: 06 Jul 2023



CONSTRUCTION EQUIPMENT



GRAPHS

