



CONSTRUCTION EQUIPMENT

590811 ASH GROVE VOLVO A40G 353375 - DIESEL ENGINE



Sample No: VCP447369
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 590811 ASH GROVE



SAMPLE INFORMATION

Sample Number	VCP447369	VCP449540	VCP412065	VCP434879
Sample Date	19 Jun 2024	18 Apr 2024	10 Oct 2023	07 Sep 2023
Machine Hours	4960	4458	2912	2328
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

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	13.1	12.5	12.4	12.0
Base Number (BN)	mg KOH/g	8.7	6.2	9.8	9.3
Oxidation (PA)	%	59	86	77	80

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 %	%	0.2	0.4	0.2	0.2
Nitration (PA)	%	57	90	55	62
Sulfation (PA)	%	52	63	58	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	4	7
Sodium	ppm	<1	1	43	2
Potassium	ppm	0	0	0	0



WEAR METALS

Iron	ppm	6	15	6	9
Copper	ppm	2	4	3	11
Lead	ppm	0	0	0	0
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	57	51	46	43
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	1214	1965	1582	1889
Magnesium	ppm	912	466	480	518
Zinc	ppm	1269	1220	1038	1170
Phosphorus	ppm	1066	938	877	961
Barium	ppm	0	0	0	0
Boron	ppm	3	20	48	30

Depot: VOLVO0096
Unique No: 11090607
Signed: Don Baldrige
Report Date: 25 Jun 2024



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GRAPHS

