



CONSTRUCTION EQUIPMENT

SOUTHWEST AG VOLVO A40G 352921 - DIESEL ENGINE



Sample No: VCP432590
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SOUTHWEST AG



SAMPLE INFORMATION

Sample Number	VCP432590	VCP434287	VCP434286	VCP367210
Sample Date	10 Dec 2023	01 Nov 2023	31 Oct 2023	19 Oct 2022
Machine Hours	4226	4224	4224	2303
Oil Hours	2	0	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	ABNORMAL	SEVERE	SEVERE	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.9	12.3	12.4	12.6
Base Number (BN)	mg KOH/g	10.5	10.0	7.8	9.8
Oxidation (PA)	%	73	83	80	86

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.4	0.4	0.3
Nitration (PA)	%	47	100	95	79
Sulfation (PA)	%	59	66	63	66
Glycol	%	NEG	0.10	0.10	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	15	15	8
Sodium	ppm	153	1095	1083	2
Potassium	ppm	38	260	258	0

Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend an early resample to monitor this condition. All component wear rates are normal. Sodium and/or potassium levels remain high. The BN result indicates that there is suitable alkalinity remaining in the oil.

WEAR METALS

Iron	ppm	4	11	11	8
Copper	ppm	8	9	9	6
Lead	ppm	0	<1	<1	1
Tin	ppm	0	<1	<1	1
Aluminum	ppm	2	2	2	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	53	111	111	56
Nickel	ppm	<1	4	4	1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1540	1553	1550	1614
Magnesium	ppm	486	533	533	563
Zinc	ppm	1061	1103	1095	1075
Phosphorus	ppm	841	869	872	883
Barium	ppm	0	<1	<1	0
Boron	ppm	62	17	18	18

Depot: VOLVO0090
Unique No: 10780116
Signed: Jonathan Hester
Report Date: 13 Dec 2023



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GRAPHS

