



CONSTRUCTION EQUIPMENT

537144 SUWANNEE VOLVO A40G 353375 - DIESEL ENGINE



Sample No: VCP449540
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 537144 SUWANNEE



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SAMPLE INFORMATION

Sample Number	VCP449540	VCP412065	VCP434879	VCP417668
Sample Date	18 Apr 2024	10 Oct 2023	07 Sep 2023	14 Jul 2023
Machine Hours	4458	2912	2328	1524
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ATTENTION	ATTENTION



OIL CONDITION

Visc @ 100°C	cSt	12.5	12.4	12.0	11.8
Base Number (BN)	mg KOH/g	6.2	9.8	9.3	8.7
Oxidation (PA)	%	86	77	80	80



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.2	0.2	0.2
Nitration (PA)	%	90	55	62	65
Sulfation (PA)	%	63	58	60	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	7	9
Sodium	ppm	1	43	2	4
Potassium	ppm	0	0	0	0



WEAR METALS

Iron	ppm	15	6	9	10
Copper	ppm	4	3	11	74
Lead	ppm	0	0	0	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	0	<1	0	0
Molybdenum	ppm	51	46	43	49
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	1
Vanadium	ppm	0	<1	0	<1



ADDITIVES

Calcium	ppm	1965	1582	1889	1873
Magnesium	ppm	466	480	518	461
Zinc	ppm	1220	1038	1170	1134
Phosphorus	ppm	938	877	961	945
Barium	ppm	0	0	0	0
Boron	ppm	20	48	30	29

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: 10994124
Signed: Wes Davis
Report Date: 25 Apr 2024



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GRAPHS

