



CONSTRUCTION EQUIPMENT

VOLVO A45G 342286 - DIESEL ENGINE



Sample No: VCP454972
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP454972	VCP454186	VCP428796	VCP414729
Sample Date	13 May 2024	16 Jan 2024	16 Jan 2024	29 Sep 2023
Machine Hours	8832	3868	3868	7665
Oil Hours	0	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ABNORMAL	NORMAL	ATTENTION

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OIL CONDITION

Visc @ 100°C	cSt	9.6	11.7	12.8	12.3
Base Number (BN)	mg KOH/g	6.9	8.2	9.8	9.8
Oxidation (PA)	%	65	73	80	78

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.2	0.2	0.2
Nitration (PA)	%	47	68	61	58
Sulfation (PA)	%	56	60	60	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	2.8	0.6	<1.0	<1.0
Silicon	ppm	10	12	4	4
Sodium	ppm	5	4	2	2
Potassium	ppm	0	<1	0	<1



WEAR METALS

Iron	ppm	9	16	4	2
Copper	ppm	3	36	<1	1
Lead	ppm	0	1	0	1
Tin	ppm	0	2	<1	1
Aluminum	ppm	7	3	1	2
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	33	47	41	42
Nickel	ppm	0	▲ 11	0	<1
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	1	0	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1134	1700	1765	1697
Magnesium	ppm	460	537	536	504
Zinc	ppm	889	1185	1186	1217
Phosphorus	ppm	787	973	1008	976
Barium	ppm	0	0	0	0
Boron	ppm	12	26	42	35

Depot: VOLVO0093
Unique No: 11029611
Signed: Don Baldrige
Report Date: 17 May 2024



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VOLVO GRAPHS

