



CONSTRUCTION EQUIPMENT

661922 APTIM VOLVO A35G 340227 - DIESEL ENGINE



Sample No: VCP440025
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 661922 APTIM



SAMPLE INFORMATION

Sample Number	VCP440025	VCP430283	VCP425810	VCP425789
Sample Date	31 Jan 2024	13 Nov 2023	27 Jul 2023	31 May 2023
Machine Hours	8398	8075	7611	7328
Oil Hours	500	500	500	2000
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	SEVERE

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OIL CONDITION

Visc @ 100°C	cSt	12.2	11.9	12.2	5.2
Base Number (BN)	mg KOH/g	9.6	9.6	9.4	24.1
Oxidation (PA)	%	73	79	76	112

Diagnosis

Oil and filter change at the time of sampling has been noted. 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 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	5.68
Soot %	%	0.1	0.2	0.2	0.3
Nitration (PA)	%	61	63	56	180
Sulfation (PA)	%	57	60	59	14
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.6
Silicon	ppm	5	4	5	11
Sodium	ppm	4	4	0	3
Potassium	ppm	1	1	2	<1



WEAR METALS

Iron	ppm	6	7	20	39
Copper	ppm	2	4	21	8
Lead	ppm	<1	<1	<1	0
Tin	ppm	1	<1	<1	2
Aluminum	ppm	3	2	2	<1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	45	42	44	39
Nickel	ppm	1	<1	1	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1359	1522	1636	1527
Magnesium	ppm	513	477	469	453
Zinc	ppm	996	1045	1099	1037
Phosphorus	ppm	847	872	933	877
Barium	ppm	1	0	0	0
Boron	ppm	22	26	52	67

Depot: VOLVO0093
Unique No: 10900906
Signed: Don Baldrige
Report Date: 29 Feb 2024

VOLVO GRAPHS

