



CONSTRUCTION EQUIPMENT

47847 VOLVO EC350E 314512 - DIESEL ENGINE



Sample No: VCP417909
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 47847



SAMPLE INFORMATION

Sample Number	VCP417909	VCP402651	VCP408251	VCP408737
Sample Date	17 Apr 2024	21 Nov 2023	21 Aug 2023	17 Apr 2023
Machine Hours	2041	1660	1179	593
Oil Hours	500	500	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.1	12.0	11.9	10.4
Base Number (BN)	mg KOH/g	9.4	9.0	8.4	5.4
Oxidation (PA)	%	79	73	83	62



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	60	58	75	87
Sulfation (PA)	%	59	57	62	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	0.4	0.6
Silicon	ppm	6	5	13	29
Sodium	ppm	1	2	3	4
Potassium	ppm	2	0	1	4



WEAR METALS

Iron	ppm	5	3	6	10
Copper	ppm	11	11	71	373
Lead	ppm	<1	0	1	5
Tin	ppm	1	<1	1	2
Aluminum	ppm	2	0	0	<1
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	40	45	44	84
Nickel	ppm	<1	0	0	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	1	3
Vanadium	ppm	<1	0	<1	<1



ADDITIVES

Calcium	ppm	1653	1777	1801	2190
Magnesium	ppm	478	439	478	16
Zinc	ppm	1099	1100	1131	1183
Phosphorus	ppm	953	958	906	969
Barium	ppm	2	0	0	0
Boron	ppm	56	56	19	37

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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.

Depot: VOLVO8531
Unique No: 10996678
Signed: Don Baldrige
Report Date: 29 Apr 2024



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GRAPHS

