



CONSTRUCTION EQUIPMENT

GFL 405011 VOLVO EC300E 312753 - DIESEL ENGINE



Sample No: VCE223454
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 405011



SAMPLE INFORMATION

Sample Number	VCE223454	VCP394117	VCP391898	VCP352944
Sample Date	21 May 2024	02 Dec 2023	29 Apr 2023	24 Dec 2022
Machine Hours	10384	9900	9341	8814
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	MARGINAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.2	13.5	13.7
Oxidation (PA)	%	86	89	90	93



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0.1	0	0
Nitration (PA)	%	62	65	72	70
Sulfation (PA)	%	63	64	64	70
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	19	14	25
Sodium	ppm	2	3	2	2
Potassium	ppm	0	0	0	0

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 condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	10	13	10	12
Copper	ppm	2	2	1	2
Lead	ppm	0	1	<1	1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	8	10	5	6
Chromium	ppm	<1	1	<1	<1
Molybdenum	ppm	40	45	48	45
Nickel	ppm	<1	1	<1	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1753	1715	1910	1799
Magnesium	ppm	521	566	565	530
Zinc	ppm	1102	1132	1170	1129
Phosphorus	ppm	925	912	1005	997
Barium	ppm	0	<1	0	0
Boron	ppm	29	23	37	32

Depot: CASKIT
Unique No: 5787086
Signed: Wes Davis
Report Date: 28 May 2024



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VOLVO GRAPHS

