



CONSTRUCTION EQUIPMENT

GFL 386577 VOLVO EC300E 312753 - DIESEL ENGINE



Sample No: VCP394117
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 386577



SAMPLE INFORMATION

Sample Number	VCP394117	VCP391898	VCP352944	VCP334248
Sample Date	02 Dec 2023	29 Apr 2023	24 Dec 2022	28 Aug 2022
Machine Hours	9900	9341	8814	8300
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	MARGINAL	NORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.2	13.5	13.7	13.3
Oxidation (PA)	%	89	90	93	94

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0	0	0
Nitration (PA)	%	65	72	70	72
Sulfation (PA)	%	64	64	70	70
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	19	14	25	26
Sodium	ppm	3	2	2	3
Potassium	ppm	0	0	0	<1

Diagnosis

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Aluminum ppm levels are marginal. All other 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	13	10	12	11
Copper	ppm	2	1	2	2
Lead	ppm	1	<1	1	1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	10	5	6	5
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	45	48	45	44
Nickel	ppm	1	<1	<1	0
Titanium	ppm	0	<1	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1715	1910	1799	1742
Magnesium	ppm	566	565	530	531
Zinc	ppm	1132	1170	1129	1102
Phosphorus	ppm	912	1005	997	967
Barium	ppm	<1	0	0	<1
Boron	ppm	23	37	32	25

Depot: CASKIT
Unique No: 5695888
Signed: Kevin Marson
Report Date: 14 Dec 2023



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GRAPHS

