



CONSTRUCTION EQUIPMENT

GFL 363321 VOLVO EC300E 312753 - DIESEL ENGINE



Sample No: VCP391898
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 363321



SAMPLE INFORMATION

Sample Number	VCP391898	VCP352944	VCP334248	VCP334171
Sample Date	29 Apr 2023	24 Dec 2022	28 Aug 2022	13 May 2022
Machine Hours	9341	8814	8300	7744
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.5	13.7	13.3	12.8
Oxidation (PA)	%	90	93	94	89



CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	72	70	72	71
Sulfation (PA)	%	64	70	70	71
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	14	25	26	22
Sodium	ppm	2	2	3	2
Potassium	ppm	0	0	<1	<1

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	12	11	11
Copper	ppm	1	2	2	1
Lead	ppm	<1	1	1	1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	5	6	5	6
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	48	45	44	40
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1910	1799	1742	1680
Magnesium	ppm	565	530	531	517
Zinc	ppm	1170	1129	1102	1130
Phosphorus	ppm	1005	997	967	940
Barium	ppm	0	0	<1	<1
Boron	ppm	37	32	25	30

Depot: CASKIT
Unique No: 5581161
Signed: Wes Davis
Report Date: 29 May 2023



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GRAPHS

