



CONSTRUCTION EQUIPMENT

8000374907 VOLVO EC300DL 210165 - DIESEL ENGINE



Sample No: VCP379591
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 8000374907



SAMPLE INFORMATION

Sample Number	VCP379591	WC0728161	WC0676172	WC0620474
Sample Date	14 Aug 2023	06 Oct 2022	20 Apr 2022	26 Jan 2022
Machine Hours	15866	14836	14368	13913
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	NORMAL

STRONGCO EQUIPMENT

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OIL CONDITION

Visc @ 100°C	cSt	14.0	13.5	13.4	13.5
Oxidation (PA)	%	83	87	49	86



CONTAMINATION

Soot %	%	0.9	0.5	0.1	0.5
Nitration (PA)	%	81	83	50	72
Sulfation (PA)	%	79	73	54	70
Glycol	%	0.0	0.0	0.0	0.0
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	9	8	11
Sodium	ppm	▲ 349	▲ 869	▲ 660	101
Potassium	ppm	4	10	10	2

Diagnosis

Check for low coolant level. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Water treatment chemicals present, indicating slow coolant leak. Test for glycol is negative. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service (see recommendation).



WEAR METALS

Iron	ppm	57	31	16	16
Copper	ppm	10	2	1	1
Lead	ppm	5	<1	<1	<1
Tin	ppm	3	2	1	2
Aluminum	ppm	6	4	5	5
Chromium	ppm	5	2	<1	<1
Molybdenum	ppm	39	41	34	40
Nickel	ppm	5	<1	<1	<1
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1769	1774	1723	1766
Magnesium	ppm	485	500	445	535
Zinc	ppm	1142	1109	1065	1106
Phosphorus	ppm	984	1028	962	963
Barium	ppm	0	0	0	0
Boron	ppm	25	24	29	28

Depot: SHE255MON
Unique No: 5630725
Signed: Kevin Marson
Report Date: 23 Aug 2023



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VOLVO GRAPHS

