



CONSTRUCTION EQUIPMENT

717261 VOLVO EC480E 314048 - DIESEL ENGINE



Sample No: VCP447776
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 717261



SAMPLE INFORMATION

Sample Number	VCP447776	VCP431699	VCP404970	VCP367795
Sample Date	30 May 2024	13 Oct 2023	29 Apr 2023	05 Nov 2022
Machine Hours	7581	6634	6015	5462
Oil Hours	500	600	0	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ATTENTION	ATTENTION	ATTENTION

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OIL CONDITION

Visc @ 100°C	cSt	11.9	12.1	12.4	12.3
Base Number (BN)	mg KOH/g	8.9	9.5	6.8	9.6
Oxidation (PA)	%	80	79	57	66

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. Cylinder, crank, or cam shaft wear is indicated. 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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.1	0.2
Nitration (PA)	%	74	63	68	78
Sulfation (PA)	%	60	59	48	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	8	5	5
Sodium	ppm	9	2	1	<1
Potassium	ppm	2	0	<1	2



WEAR METALS

Iron	ppm	152	7	7	7
Copper	ppm	8	6	7	2
Lead	ppm	1	0	0	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	<1	<1	<1
Chromium	ppm	1	<1	0	<1
Molybdenum	ppm	50	44	56	61
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	2	<1	<1	<1
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	1699	1482	1176	1099
Magnesium	ppm	631	504	968	934
Zinc	ppm	1165	960	1215	1271
Phosphorus	ppm	1008	810	1006	1033
Barium	ppm	0	0	0	0
Boron	ppm	26	39	5	<1

Depot: BLADET
Unique No: 11071694
Signed: Sean Felton
Report Date: 12 Jun 2024



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GRAPHS

