



CONSTRUCTION EQUIPMENT

SW-33848-2 MAVERICK VOLVO EC480E 315097 - DIESEL ENGINE



Sample No: VCP397013
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SW-33848-2 MAVERICK



SAMPLE INFORMATION

Sample Number	VCP397013	VCP440339	VCP443489	VCP423008
Sample Date	10 May 2024	14 Feb 2024	02 Nov 2023	31 Jul 2023
Machine Hours	2422	1851	1250	679
Oil Hours	560	520	530	679
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	11.7	12.1	12.2	10.5
Base Number (BN)	mg KOH/g	7.2	6.7	6.9	4.8
Oxidation (PA)	%	82	62	67	72

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. All component wear rates are normal. 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	0.1	0.1	0.1
Nitration (PA)	%	71	66	71	81
Sulfation (PA)	%	63	55	57	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.6
Silicon	ppm	6	6	10	33
Sodium	ppm	<1	5	3	0
Potassium	ppm	2	0	2	4



WEAR METALS

Iron	ppm	6	5	8	14
Copper	ppm	5	16	74	263
Lead	ppm	<1	0	0	1
Tin	ppm	1	<1	<1	2
Aluminum	ppm	2	1	3	3
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	40	63	65	84
Nickel	ppm	<1	0	0	<1
Titanium	ppm	1	<1	<1	<1
Silver	ppm	<1	0	0	<1
Manganese	ppm	<1	<1	<1	3
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	1706	1483	1276	2221
Magnesium	ppm	447	532	807	84
Zinc	ppm	1083	1057	1238	1175
Phosphorus	ppm	890	917	991	954
Barium	ppm	0	0	7	0
Boron	ppm	10	16	17	27

Depot: VOLVO8770
Unique No: 11035281
Signed: Jonathan Hester
Report Date: 22 May 2024



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VOLVO GRAPHS

