



CONSTRUCTION EQUIPMENT

SPM580672 MILBURN DE VOLVO EC300DL 210200 - DIESEL ENGINE



Sample No: VC05956833
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM580672 MILBURN DE



SAMPLE INFORMATION

Sample Number	VC05956833	VCP383371	VCP343306	VCP280169
Sample Date	12 Sep 2023	19 Apr 2023	24 Jan 2022	22 Aug 2020
Machine Hours	5950	5803	5355	4200
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	14.1	14.4	13.9	13.7
Base Number (BN)	mg KOH/g	9.9	8.6	8.6	---
Oxidation (PA)	%	55	58	61	65

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

Soot %	%	0.3	0.6	0.7	0.7
Nitration (PA)	%	50	63	69	67
Sulfation (PA)	%	50	50	59	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	5	5	5
Sodium	ppm	2	<1	2	3
Potassium	ppm	2	<1	3	<1



WEAR METALS

Iron	ppm	8	20	18	27
Copper	ppm	<1	1	3	3
Lead	ppm	0	0	1	1
Tin	ppm	<1	0	<1	1
Aluminum	ppm	1	4	3	0
Chromium	ppm	<1	<1	1	2
Molybdenum	ppm	60	54	14	62
Nickel	ppm	<1	0	1	1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1171	1066	1251	1096
Magnesium	ppm	943	964	541	953
Zinc	ppm	1306	1272	936	1246
Phosphorus	ppm	1081	984	794	1012
Barium	ppm	0	0	0	<1
Boron	ppm	1	1	41	6

Depot: VOLVO8885
Unique No: 10658046
Signed: Wes Davis
Report Date: 21 Sep 2023



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GRAPHS

