



CONSTRUCTION EQUIPMENT

701702 GREGCO SDLG L959F 640022 - DIESEL ENGINE



Sample No: VCP437333
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 701702 GREGCO



SAMPLE INFORMATION

Sample Number	VCP437333	VCP428668	VCP429371	VCP374623
Sample Date	16 Apr 2024	10 Jan 2024	10 Oct 2023	14 Jun 2022
Machine Hours	5226	4533	3951	2074
Oil Hours	500	500	500	1500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.1	12.9	13.4	14.5
Base Number (BN)	mg KOH/g	5.2	10.5	10.5	11.8
Oxidation (PA)	%	67	79	83	87

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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	1.6	0.3	0.3	0.3
Nitration (PA)	%	79	61	66	70
Sulfation (PA)	%	65	60	61	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	6	6
Sodium	ppm	2	2	2	2
Potassium	ppm	2	0	0	<1



WEAR METALS

Iron	ppm	9	8	8	12
Copper	ppm	1	1	1	4
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	4	4	4	10
Chromium	ppm	<1	0	0	<1
Molybdenum	ppm	47	38	39	40
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	0	<1
Silver	ppm	<1	0	0	<1
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1517	1823	1666	1745
Magnesium	ppm	622	524	497	487
Zinc	ppm	1148	1212	1191	1129
Phosphorus	ppm	1031	1027	994	929
Barium	ppm	0	0	0	0
Boron	ppm	29	46	43	56

Depot: VOLVO0093
Unique No: 11036743
Signed: Wes Davis
Report Date: 22 May 2024



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VOLVO GRAPHS

