



CONSTRUCTION EQUIPMENT

SPM619747 GREGCO REC SDLG L959F 640022 - DIESEL ENGINE



Sample No: VCP429371
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM619747 GREGCO REC



SAMPLE INFORMATION

Sample Number	VCP429371	VCP374623	VCP313592	VCP301590
Sample Date	10 Oct 2023	14 Jun 2022	20 Oct 2021	04 Mar 2021
Machine Hours	3951	2074	1550	918
Oil Hours	500	1500	1500	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.4	14.5	13.2	13.1
Base Number (BN)	mg KOH/g	10.5	11.8	---	---
Oxidation (PA)	%	83	87	80	60

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	0.3	0.3	0.4
Nitration (PA)	%	66	70	66	69
Sulfation (PA)	%	61	65	62	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	10	19
Sodium	ppm	2	2	3	3
Potassium	ppm	0	<1	0	8



WEAR METALS

Iron	ppm	8	12	16	38
Copper	ppm	1	4	7	17
Lead	ppm	<1	<1	1	3
Tin	ppm	<1	1	2	0
Aluminum	ppm	4	10	14	46
Chromium	ppm	0	<1	2	5
Molybdenum	ppm	39	40	46	47
Nickel	ppm	0	0	0	1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	<1	<1	1
Manganese	ppm	<1	<1	<1	3
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1666	1745	1620	1416
Magnesium	ppm	497	487	557	873
Zinc	ppm	1191	1129	1079	1126
Phosphorus	ppm	994	929	919	989
Barium	ppm	0	0	0	1
Boron	ppm	43	56	48	84

Depot: VOLVO0093
Unique No: 10741861
Signed: Wes Davis
Report Date: 16 Nov 2023



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GRAPHS

