



CONSTRUCTION EQUIPMENT

659541 GREGCO RECYC SDLG L959F 640022 - DIESEL ENGINE



Sample No: VCP428668
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 659541 GREGCO RECYC



SAMPLE INFORMATION

Sample Number	VCP428668	VCP429371	VCP374623	VCP313592
Sample Date	10 Jan 2024	10 Oct 2023	14 Jun 2022	20 Oct 2021
Machine Hours	4533	3951	2074	1550
Oil Hours	500	500	1500	1500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.9	13.4	14.5	13.2
Base Number (BN)	mg KOH/g	10.5	10.5	11.8	---
Oxidation (PA)	%	79	83	87	80

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 %	%	0.3	0.3	0.3	0.3
Nitration (PA)	%	61	66	70	66
Sulfation (PA)	%	60	61	65	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	6	10
Sodium	ppm	2	2	2	3
Potassium	ppm	0	0	<1	0

WEAR METALS

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

ADDITIVES

Calcium	ppm	1823	1666	1745	1620
Magnesium	ppm	524	497	487	557
Zinc	ppm	1212	1191	1129	1079
Phosphorus	ppm	1027	994	929	919
Barium	ppm	0	0	0	0
Boron	ppm	46	43	56	48

Depot: VOLVO0093
Unique No: 10861621
Signed: Wes Davis
Report Date: 06 Feb 2024



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VOLVO GRAPHS

