



CONSTRUCTION EQUIPMENT

137282 GFL VOLVO EC220EL 314212 - DIESEL ENGINE



Sample No: VCP420751
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 137282 GFL



SAMPLE INFORMATION

Sample Number	VCP420751	VCP348572	VCP262703	---
Sample Date	17 Apr 2024	13 Jun 2022	01 Apr 2020	---
Machine Hours	4491	2580	498	---
Oil Hours	400	525	498	---
Oil Changed	Not Chngd	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	12.9	13.6	13.4	---
Base Number (BN)	mg KOH/g	10.1	11.4	---	---
Oxidation (PA)	%	85	88	42	---

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	---
Soot %	%	0.2	0.4	0.1	---
Nitration (PA)	%	64	72	56	---
Sulfation (PA)	%	62	64	48	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	7	9	14	---
Sodium	ppm	3	8	3	---
Potassium	ppm	0	0	0	---



WEAR METALS

Iron	ppm	7	12	15	---
Copper	ppm	<1	1	9	---
Lead	ppm	0	<1	0	---
Tin	ppm	<1	2	0	---
Aluminum	ppm	3	5	3	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	39	38	4	---
Nickel	ppm	0	<1	3	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	0	1	0	---
Manganese	ppm	<1	<1	3	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	1654	1694	2387	---
Magnesium	ppm	470	476	65	---
Zinc	ppm	978	1078	1018	---
Phosphorus	ppm	849	888	900	---
Barium	ppm	0	0	0	---
Boron	ppm	37	37	3	---

Depot: VOLVO0052
Unique No: 10990967
Signed: Wes Davis
Report Date: 23 Apr 2024



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GRAPHS

