



CONSTRUCTION EQUIPMENT

580485 VOLVO EC300EL 314677 - DIESEL ENGINE



Sample No: VCP416907
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 580485



SAMPLE INFORMATION

Sample Number	VCP416907	VCP388243	---	---
Sample Date	25 Jul 2023	01 Nov 2022	---	---
Machine Hours	1036	494	---	---
Oil Hours	500	494	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.7	---	---
Base Number (BN)	mg KOH/g	9.8	7.5	---	---
Oxidation (PA)	%	80	48	---	---

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a components first oil change. 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 %	%	0.2	0.1	---	---
Nitration (PA)	%	66	70	---	---
Sulfation (PA)	%	61	54	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	9	16	---	---
Sodium	ppm	3	2	---	---
Potassium	ppm	12	18	---	---



WEAR METALS

Iron	ppm	12	15	---	---
Copper	ppm	6	18	---	---
Lead	ppm	<1	3	---	---
Tin	ppm	2	3	---	---
Aluminum	ppm	11	12	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	41	7	---	---
Nickel	ppm	<1	4	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	<1	3	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	1734	2055	---	---
Magnesium	ppm	500	262	---	---
Zinc	ppm	1107	1099	---	---
Phosphorus	ppm	916	952	---	---
Barium	ppm	0	0	---	---
Boron	ppm	38	8	---	---

Depot: VOLVO0093
Unique No: 10615944
Signed: Sean Felton
Report Date: 23 Aug 2023



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GRAPHS

