



CONSTRUCTION EQUIPMENT

SWA553561-10 VOLVO EC480EL 315223 - DIESEL ENGINE



Sample No: VCP433519
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA553561-10



SAMPLE INFORMATION

Sample Number	VCP433519	VCP437760	---	---
Sample Date	04 May 2024	12 Apr 2024	---	---
Machine Hours	1074	1071	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	ABNORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	13.0	10.2	---	---
Base Number (BN)	mg KOH/g	9.9	3.3	---	---
Oxidation (PA)	%	71	82	---	---

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	---	---
Soot %	%	0.1	0.2	---	---
Nitration (PA)	%	44	94	---	---
Sulfation (PA)	%	59	68	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	1.0	---	---
Silicon	ppm	9	32	---	---
Sodium	ppm	1	3	---	---
Potassium	ppm	1	5	---	---



WEAR METALS

Iron	ppm	2	22	---	---
Copper	ppm	22	177	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	<1	3	---	---
Aluminum	ppm	1	4	---	---
Chromium	ppm	0	<1	---	---
Molybdenum	ppm	39	83	---	---
Nickel	ppm	0	2	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	1	3	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	1595	2086	---	---
Magnesium	ppm	467	50	---	---
Zinc	ppm	1049	1108	---	---
Phosphorus	ppm	892	929	---	---
Barium	ppm	0	0	---	---
Boron	ppm	68	6	---	---

Depot: VOLVO0090
Unique No: 11016897
Signed: Wes Davis
Report Date: 08 May 2024



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GRAPHS

