



CONSTRUCTION EQUIPMENT

23999 VOLVO ECR88D 217512 - DIESEL ENGINE



Sample No: VCP424635
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 23999



SAMPLE INFORMATION

Sample Number	VCP424635	VCP371895	VCP377823	---
Sample Date	15 Sep 2023	27 Dec 2022	11 Oct 2022	---
Machine Hours	1460	902	620	---
Oil Hours	500	1000	250	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	ABNORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	14.1	13.7	14.1	---
Base Number (BN)	mg KOH/g	8.3	9.9	8.3	---
Oxidation (PA)	%	83	86	70	---

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 %	%	0.4	0.2	0.4	---
Nitration (PA)	%	78	68	78	---
Sulfation (PA)	%	60	63	66	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	5	9	---
Sodium	ppm	3	3	4	---
Potassium	ppm	2	0	3	---



WEAR METALS

Iron	ppm	17	11	31	---
Copper	ppm	4	10	▲ 102	---
Lead	ppm	0	<1	<1	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	4	3	5	---
Chromium	ppm	<1	<1	2	---
Molybdenum	ppm	53	44	44	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	3	---
Vanadium	ppm	0	0	<1	---



ADDITIVES

Calcium	ppm	1918	1921	2189	---
Magnesium	ppm	502	516	227	---
Zinc	ppm	1297	1119	1252	---
Phosphorus	ppm	1082	978	1006	---
Barium	ppm	0	0	1	---
Boron	ppm	15	41	34	---

Depot: OLTNOR
Unique No: 10660726
Signed: Wes Davis
Report Date: 25 Sep 2023



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GRAPHS

