



CONSTRUCTION EQUIPMENT

X59558 VOLVO EC300ELR 317660 - DIESEL ENGINE



Sample No: VCP437018
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X59558



SAMPLE INFORMATION

Sample Number	VCP437018	VCP442704	---	---
Sample Date	02 May 2024	09 Feb 2024	---	---
Machine Hours	1020	476	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	12.8	11.4	---	---
Base Number (BN)	mg KOH/g	9.2	6.3	---	---
Oxidation (PA)	%	77	63	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.2	---	---
Nitration (PA)	%	60	75	---	---
Sulfation (PA)	%	60	54	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	0.3	---	---
Silicon	ppm	7	26	---	---
Sodium	ppm	1	1	---	---
Potassium	ppm	12	16	---	---



WEAR METALS

Iron	ppm	7	14	---	---
Copper	ppm	▲ 62	▲ 333	---	---
Lead	ppm	<1	1	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	4	4	---	---
Chromium	ppm	<1	1	---	---
Molybdenum	ppm	55	85	---	---
Nickel	ppm	<1	1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	2	---	---
Manganese	ppm	<1	2	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	1895	2133	---	---
Magnesium	ppm	407	74	---	---
Zinc	ppm	1146	1195	---	---
Phosphorus	ppm	925	939	---	---
Barium	ppm	0	0	---	---
Boron	ppm	44	50	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level has decreased, but is still abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other 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.

Depot: SCOSAI
Unique No: 11018544
Signed: Sean Felton
Report Date: 10 May 2024



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GRAPHS

