



CONSTRUCTION EQUIPMENT

WILLCO VOLVO ECR40D 15163 - DIESEL ENGINE



Sample No: VCP392713
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: WILLCO



SAMPLE INFORMATION

Sample Number	VCP392713	---	---	---
Sample Date	26 Jun 2023	---	---	---
Machine Hours	668	---	---	---
Oil Hours	500	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	5.9	---	---	---
Base Number (BN)	mg KOH/g	7.2	---	---	---
Oxidation (PA)	%	54	---	---	---



CONTAMINATION

Soot %	%	0.3	---	---	---
Nitration (PA)	%	64	---	---	---
Sulfation (PA)	%	48	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	24.2	---	---	---
Silicon	ppm	6	---	---	---
Sodium	ppm	8	---	---	---
Potassium	ppm	3	---	---	---



WEAR METALS

Iron	ppm	32	---	---	---
Copper	ppm	15	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	8	---	---	---
Chromium	ppm	1	---	---	---
Molybdenum	ppm	10	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	2287	---	---	---
Magnesium	ppm	81	---	---	---
Zinc	ppm	1031	---	---	---
Phosphorus	ppm	833	---	---	---
Barium	ppm	23	---	---	---
Boron	ppm	4	---	---	---

Diagnosis

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Metal levels are typical for a new component breaking in. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Depot: VOLVO0093
Unique No: 10551661
Signed: Wes Davis
Report Date: 13 Jul 2023



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GRAPHS

