



CONSTRUCTION EQUIPMENT

A66606 COVANTA ENERG VOLVO EC300EL 311242 - DIESEL ENGINE



Sample No: VCP420422
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: A66606 COVANTA ENERG



SAMPLE INFORMATION

Sample Number	VCP420422	---	---	---
Sample Date	20 Jun 2023	---	---	---
Machine Hours	16177	---	---	---
Oil Hours	500	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

CHADWICK-BAROSS INC MAIN
 PO BOX 4500
 WESTBROOK, ME
 US 04098
 Contact: TODD PIERCE
 pierce@chadwick-baross.com
 T: (207)854-8411
 F: (207)854-8237



OIL CONDITION

Visc @ 100°C	cSt	5.5	---	---	---
Base Number (BN)	mg KOH/g	7.5	---	---	---
Oxidation (PA)	%	56	---	---	---

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. All component wear rates are normal. 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.



CONTAMINATION

Soot %	%	0.1	---	---	---
Nitration (PA)	%	58	---	---	---
Sulfation (PA)	%	49	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	35.5	---	---	---
Silicon	ppm	16	---	---	---
Sodium	ppm	2	---	---	---
Potassium	ppm	2	---	---	---



WEAR METALS

Iron	ppm	13	---	---	---
Copper	ppm	1	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	<1	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	26	---	---	---
Nickel	ppm	1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	1193	---	---	---
Magnesium	ppm	317	---	---	---
Zinc	ppm	828	---	---	---
Phosphorus	ppm	643	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	28	---	---	---

Depot: VOLVO0006
Unique No: 10537677
Signed: Wes Davis
Report Date: 03 Jul 2023



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GRAPHS

