



CONSTRUCTION EQUIPMENT

VOLVO EC380EL 310498 - DIESEL ENGINE



Sample No: VCP411717
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP411717	---	---	---
Sample Date	17 Aug 2023	---	---	---
Machine Hours	12728	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	SEVERE	---	---	---

GILCHRIST COUNTY
 539 ARROWHEAD TERRACE
 LAKE CITY, FL
 US 32024
 Contact: SERVICE MANAGER

OIL CONDITION

Visc @ 100°C	cSt	█ 12.5	---	---	---
Base Number (BN)	mg KOH/g	█ 21.2	---	---	---
Oxidation (PA)	%	75	---	---	---

T:
F:

Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. All component wear rates are normal. Sodium and/or potassium levels are high. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

CONTAMINATION

Water	%	◆ 1.72	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	63	---	---	---
Sulfation (PA)	%	42	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	▲ 88	---	---	---
Potassium	ppm	█ 5	---	---	---

WEAR METALS

Iron	ppm	█ 2	---	---	---
Copper	ppm	█ 1	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	█ 0	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 41	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 1628	---	---	---
Magnesium	ppm	█ 484	---	---	---
Zinc	ppm	█ 1145	---	---	---
Phosphorus	ppm	█ 849	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 61	---	---	---

Depot: GILLAK
Unique No: 10609086
Signed: Jonathan Hester
Report Date: 22 Aug 2023



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GRAPHS

