



CONSTRUCTION EQUIPMENT

SWA381760 VOLVO ECR305CL 110712 - DIESEL ENGINE



Sample No: VCP420815

Oil Type: NOT GIVEN

Job No: SWA381760



SAMPLE INFORMATION

Sample Number	VCP420815	---	---	---
Sample Date	05 Oct 2023	---	---	---
Machine Hours	7595	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

WOODRUFF & SONS INC.

1502 N. 50TH ST.

TAMPA, FL

US 33619

Contact: RICK

T: (813)247-6687

F:



OIL CONDITION

Visc @ 100°C	cSt	█ 14.0	---	---	---
Base Number (BN)	mg KOH/g	█ 7.1	---	---	---
Oxidation (PA)	%	47	---	---	---

Diagnosis

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Aluminum and copper ppm levels are abnormal. 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 acceptable for the time in service.



CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	54	---	---	---
Sulfation (PA)	%	45	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 11	---	---	---



WEAR METALS

Iron	ppm	█ 3	---	---	---
Copper	ppm	▲ 17	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	▲ 12	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 80	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	2	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	0	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 1925	---	---	---
Magnesium	ppm	█ 214	---	---	---
Zinc	ppm	█ 1239	---	---	---
Phosphorus	ppm	█ 996	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 63	---	---	---

Depot: WOOTAM

Unique No: 10683025

Signed: Doug Bogart

Report Date: 09 Oct 2023



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GRAPHS

