



CONSTRUCTION EQUIPMENT

PATIN CONSTRUCTION VOLVO ECR58D 2 10679 - DIESEL ENGINE



Sample No: VCP424728
Oil Type: CHEVRON 15W40
Job No: PATIN CONSTRUCTION



SAMPLE INFORMATION

Sample Number	VCP424728	---	---	---
Sample Date	21 Sep 2023	---	---	---
Machine Hours	3080	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	6.1	---	---	---
Base Number (BN)	mg KOH/g	29.3	---	---	---
Oxidation (PA)	%	92	---	---	---



CONTAMINATION

Soot %	%	0.2	---	---	---
Nitration (PA)	%	162	---	---	---
Sulfation (PA)	%	17	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	44.9	---	---	---
Silicon	ppm	7	---	---	---
Sodium	ppm	243	---	---	---
Potassium	ppm	26	---	---	---



WEAR METALS

Iron	ppm	9	---	---	---
Copper	ppm	<1	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	2	---	---	---
Aluminum	ppm	3	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	64	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	780	---	---	---
Magnesium	ppm	303	---	---	---
Zinc	ppm	519	---	---	---
Phosphorus	ppm	416	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	196	---	---	---

Diagnosis

We advise that you check the fuel injection system. We advise that you check for the source of the coolant leak. Check for low coolant level. 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. Sodium and/or potassium levels are high. There is a high amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot: VOLVO0088
Unique No: 10659628
Signed: Jonathan Hester
Report Date: 26 Sep 2023



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GRAPHS

