



CONSTRUCTION EQUIPMENT

VOLVO ECR58F 11700 - DIESEL ENGINE



Sample No: VCP412721
Oil Type: CHEVRON DELO 400 XLE 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP412721	VCP361158	---	---
Sample Date	20 Nov 2023	24 Feb 2023	---	---
Machine Hours	1000	500	---	---
Oil Hours	500	500	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ATTENTION	---	---

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 3995 CONTINENTAL DRIVE
 COLUMBIA, PA
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 T:
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OIL CONDITION

Visc @ 100°C	cSt	█ 13.3	▲ 11.1	---	---
Base Number (BN)	mg KOH/g	█ 7.1	█ 9.3	---	---
Oxidation (PA)	%	59	62	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. 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 suitable for further service.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.5	█ 0.4	---	---
Nitration (PA)	%	74	71	---	---
Sulfation (PA)	%	53	53	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	█ 1.3	---	---
Silicon	ppm	█ 5	█ 12	---	---
Sodium	ppm	█ 2	█ 6	---	---
Potassium	ppm	█ <1	█ 1	---	---



WEAR METALS

Iron	ppm	█ 18	█ 30	---	---
Copper	ppm	█ 13	█ 12	---	---
Lead	ppm	█ 0	█ 0	---	---
Tin	ppm	█ 0	█ 0	---	---
Aluminum	ppm	█ 2	█ 3	---	---
Chromium	ppm	█ <1	█ 1	---	---
Molybdenum	ppm	█ 47	█ 55	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ <1	█ 2	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	█ 1742	█ 1489	---	---
Magnesium	ppm	█ 459	█ 858	---	---
Zinc	ppm	█ 1229	█ 1198	---	---
Phosphorus	ppm	█ 890	█ 964	---	---
Barium	ppm	█ 0	█ 3	---	---
Boron	ppm	█ 16	█ 11	---	---

Depot: DHFCOL
Unique No: 10755223
Signed: Jonathan Hester
Report Date: 27 Nov 2023



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GRAPHS

