



# CONSTRUCTION EQUIPMENT

SPM633895 CH HAGER VOLVO EC160EL 314557 - DIESEL ENGINE



**Sample No:** VCP435717  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SPM633895 CH HAGER



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## SAMPLE INFORMATION

Sample Number	VCP435717	VCP420183	---	---
Sample Date	10 Nov 2023	24 Jul 2023	---	---
Machine Hours	1015	483	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ABNORMAL	---	---

## OIL CONDITION

Visc @ 100°C	cSt	█ 12.5	█ 13.4	---	---
Base Number (BN)	mg KOH/g	█ 8.8	█ 7.0	---	---
Oxidation (PA)	%	63	50	---	---

## CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.4	█ 0.2	---	---
Nitration (PA)	%	69	58	---	---
Sulfation (PA)	%	53	53	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 11	█ 26	---	---
Sodium	ppm	█ 0	█ 1	---	---
Potassium	ppm	█ 2	█ 4	---	---

## WEAR METALS

Iron	ppm	█ 27	█ 48	---	---
Copper	ppm	█ 3	█ 14	---	---
Lead	ppm	█ 0	█ 1	---	---
Tin	ppm	█ 2	█ 4	---	---
Aluminum	ppm	█ 11	▲ 34	---	---
Chromium	ppm	█ 2	█ 7	---	---
Molybdenum	ppm	█ 55	█ 17	---	---
Nickel	ppm	█ 2	█ 9	---	---
Titanium	ppm	█ <1	█ <1	---	---
Silver	ppm	█ 0	█ <1	---	---
Manganese	ppm	█ <1	█ 5	---	---
Vanadium	ppm	0	<1	---	---

## ADDITIVES

Calcium	ppm	█ 1257	█ 2893	---	---
Magnesium	ppm	█ 729	█ 177	---	---
Zinc	ppm	█ 1155	█ 1417	---	---
Phosphorus	ppm	█ 932	█ 1232	---	---
Barium	ppm	█ 0	█ 3	---	---
Boron	ppm	█ <1	█ 37	---	---

## 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.

**Depot:** VOLVO8885  
**Unique No:** 10766829  
**Signed:** Jonathan Hester  
**Report Date:** 04 Dec 2023



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## GRAPHS

