



# CONSTRUCTION EQUIPMENT

NOT GIVEN VCP401993 (S/N NO INFO ON SIF/BOTTLE) - DIESEL ENGINE



**Sample No:** VCP401993  
**Oil Type:** VALVOLINE PREMIUM CONVENTIONAL MOTOR OIL 5W20  
**Job No:**



## SAMPLE INFORMATION

Sample Number	VCP401993	---	---	---
Sample Date	22 May 2023	---	---	---
Machine Hours	237000	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

**MCCLUNG-LOGAN EQUIPMENT CO - SALEM**  
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## OIL CONDITION

Visc @ 100°C	cSt	■ 8.1	---	---	---
Base Number (BN)	mg KOH/g	■ 3.9	---	---	---
Oxidation (PA)	%	■ 69	---	---	---

## Diagnosis

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal. 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	---	---	---
Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	■ 90	---	---	---
Sulfation (PA)	%	■ 68	---	---	---
Glycol	%	■ NEG	---	---	---
Fuel	%	■ <1.0	---	---	---
Silicon	ppm	▲ 54	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 1	---	---	---

## WEAR METALS

Iron	ppm	■ 10	---	---	---
Copper	ppm	■ 2	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 50	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	■ <1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	■ 0	---	---	---

## ADDITIVES

Calcium	ppm	■ 785	---	---	---
Magnesium	ppm	■ 662	---	---	---
Zinc	ppm	■ 699	---	---	---
Phosphorus	ppm	■ 605	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 14	---	---	---

**Depot:** VOLVO9010  
**Unique No:** 10484119  
**Signed:** Don Baldrige  
**Report Date:** 25 May 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

