

# [[208999]] BM345 - DIESEL ENGINE

Sample No: CU0023378

Oil Type: VALVOLINE 15W40

## SAMPLE INFORMATION

Sample Number	CU0023378	---	---	---
Sample Date	17 Apr 2024	---	---	---
Machine Hours	523835	---	---	---
Oil Hours	5000	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

**CUMMINS CANADA ULC**  
7200 TRANS CANADA HWY.  
POINTE CLAIRE, QC  
CA H9R 1C2  
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## OIL CONDITION

Visc @ 100°C	cSt	█ 13.0	---	---	---
Oxidation (PA)	%	67	---	---	---

## 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 condition of the oil is acceptable for the time in service.

## CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0	---	---	---
Nitration (PA)	%	61	---	---	---
Sulfation (PA)	%	56	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 1	---	---	---

## WEAR METALS

Iron	ppm	█ 7	---	---	---
Copper	ppm	█ <1	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 50	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---

## ADDITIVES

Calcium	ppm	█ 1191	---	---	---
Magnesium	ppm	█ 740	---	---	---
Zinc	ppm	█ 794	---	---	---
Phosphorus	ppm	█ 688	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 52	---	---	---

Depot: DIEPOI  
Unique No: 5763288  
Signed: Wes Davis  
Report Date: 19 Apr 2024

# GRAPHS

