

# **OIL ANALYSIS REPORT**

[Z20071] **CUMMINS CUMMINS C18** 

**Port Diesel Engine** 

VERTEX (--- LTR)

# Sample Rating Trend



# Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

# Contamination

There is no indication of any contamination in the

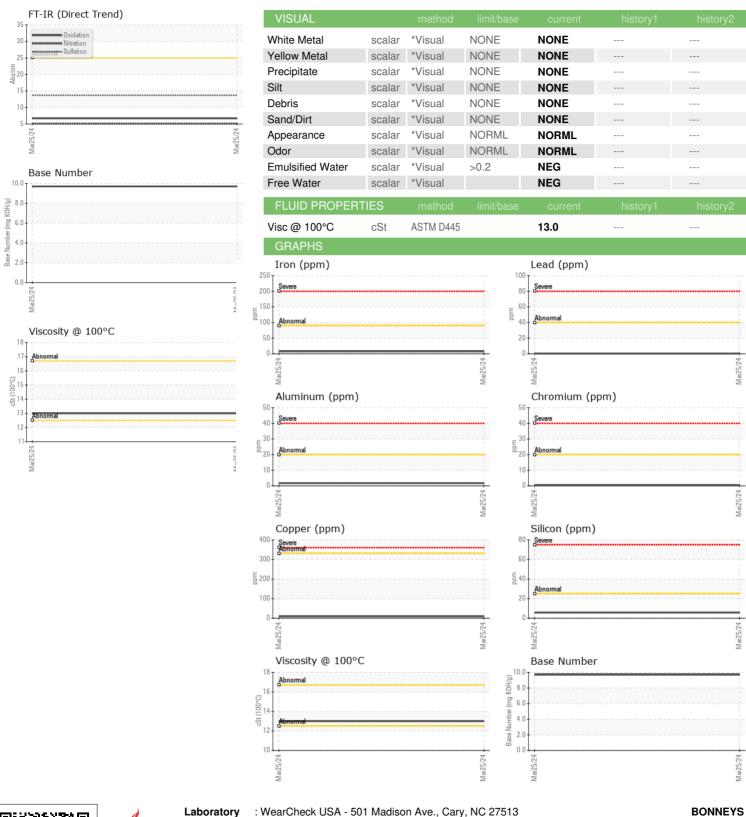
# **Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

				Mar2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC06148501		
Sample Date		Client Info		25 Mar 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATIO	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	8		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m	>2	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>20	2		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	9		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		6		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		5		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		1203		
Calcium	ppm	ASTM D5185m		1359		
Phosphorus	ppm	ASTM D5185m		1153		
Zinc	ppm	ASTM D5185m		1258		
Sulfur	ppm	ASTM D5185m		3532		
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m	>20	<1		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	5.1		
Sulfation	Abs/.1mm	*ASTM D7415	>30	13.7		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	6.7		
Base Number (BN)	mg KOH/g	ASTM D2896		9.7		



# **OIL ANALYSIS REPORT**







Laboratory Sample No.

Lab Number : 06148501 Unique Number : 10978579

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC06148501

Received **Tested** Diagnosed

: 15 Apr 2024 : 16 Apr 2024

: 16 Apr 2024 - Wes Davis

AUCKLAND, NZ Contact: MIKE VESLY

Test Package : MOB 1 ( Additional Tests: TBN ) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

mike.vesly@bonneys.co.nz

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: BONAUC [WUSCAR] 06148501 (Generated: 04/16/2024 10:44:39) Rev: 1

Contact/Location: MIKE VESLY - BONAUC

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