

OIL ANALYSIS REPORT

Sample Rating Trend





Component Diesel Engine

Fluid

CUMMINS CUMMINS BLUE 2000 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

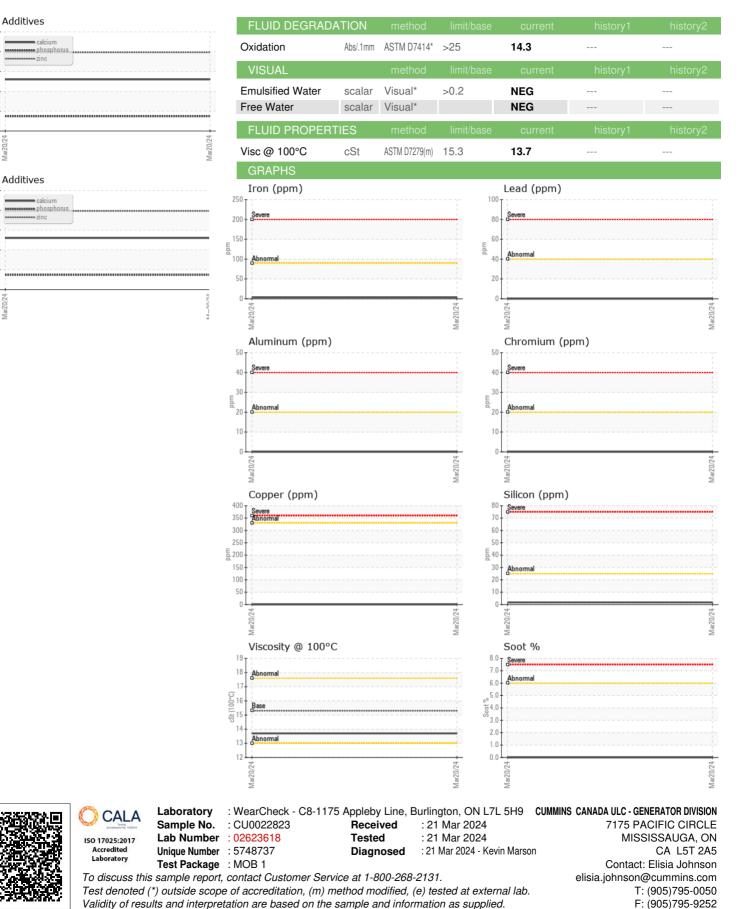
Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Sample Date Info 20 Mar 2024 Machine Age hrs Client Info 0 Oil Age hrs Client Info 0 Oil Changed Client Info N/A Sample Status Imit/base current History1 History2 Fuel WC Method >3.0 <1.0 Water WC Method >3.0 <1.0 WC Method >0.2 NEG WC Method >0.2 NEG Machine ppm ASTM 05185(m) >20 0 Nickel ppm ASTM 05185(m) >20 0 Silver ppm ASTM 05185(m) >20 Silver ppm ASTM 05185(m) >20					Mar2024		
Sample Date Client Info 20 Mar 2024 Machine Age hrs Client Info 11600 Oil Age hrs Client Info 0 Sample Status Client Info N/A CONTAMINATION method imit/base current history1 history2 Fuel WC Method >3.0 <1.0 Water WC Method >0.2 NEG WEAR METALS method imit/base current history1 history2 Iron ppm ASTM 05185(m) >20 0 WEAR METALS method imit/base current history1 history2 Iron ppm ASTM 05185(m) >20 Iron ppm ASTM 05185(m) >20 Iron ppm <td< th=""><th>SAMPLE INFORM</th><th>ATION</th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></td<>	SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 11600 Oil Age hrs Client Info 0 Sample Status I NVA Sample Status Imit/base current History1 Water WC Method >3.0 <1.0	Sample Number		Client Info		CU0022823		
Oil Age hrs Client Info 0 Oil Changed Client Info N/A Sample Status Imil/base current history1 CONTAMINATION method limit/base current history1 history2 Fuel WC Method >3.0 <1.0	Sample Date		Client Info		20 Mar 2024		
Oli Changed Client Info N/A Sample Status Image of the status CONTAMINATION method Imit/base current history1 history2 Fuel WC Method >3.0 <1.0 Water WC Method >0.2 NEG WC Method >0.2 NEG WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM DS185(m) >20 0 Silver ppm ASTM DS185(m) >20 0 Auminum ppm ASTM DS185(m) >20 0 Auminum ppm ASTM DS185(m) >20 Auminum ppm ASTM DS185(m) >20	Machine Age	hrs	Client Info		11600		
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CONTAMINATION method limit/base current history1 history2 Fuel WC Method >3.0 <1.0	Oil Changed		Client Info		N/A		
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Lead ppm ASTM D5185(m) >40 0 Copper ppm ASTM D5185(m) >330 <1	Silver	ppm	ASTM D5185(m)	>2	0		
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ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 1.7 4 Barium ppm ASTM D5185(m) 0.1 0 Molybdenum ppm ASTM D5185(m) 0.0 50 Manganese ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) 12 839 Calcium ppm ASTM D5185(m) 128 839 Calcium ppm ASTM D5185(m) 1002 887 Zinc ppm ASTM D5185(m) 1288 1048 Sulfur ppm ASTM D5185(m) 5265 2320 CONTAMINANTS method limit/base current history1 history2 Silicon ppm	Beryllium	ppm	ASTM D5185(m)		0		
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Manganese ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) 12 839 Calcium ppm ASTM D5185(m) 2946 980 Phosphorus ppm ASTM D5185(m) 1002 887 Zinc ppm ASTM D5185(m) 1002 887 Zinc ppm ASTM D5185(m) 1288 1048 Sulfur ppm ASTM D5185(m) 5265 2320 Lithium ppm ASTM D5185(m) 5265 2320 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >25 2 Sodium ppm ASTM D5185(m) >20 0 INFRA-RED method limit/base <td>Barium</td> <td>ppm</td> <td>ASTM D5185(m)</td> <td>0.1</td> <th>0</th> <td></td> <td></td>	Barium	ppm	ASTM D5185(m)	0.1	0		
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Potassium ppm ASTM D5185(m) >20 0 INFRA-RED method limit/base current history1 history2 Soot % % ASTM D7844* >6 0 Nitration Abs/cm ASTM D7624* >20 5.3	Silicon	ppm	ASTM D5185(m)	>25	2		
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	Soot %	%	ASTM D7844*	>6	0		
Sulfation Abs/.1mm ASTM D7415* >30 18.1	Nitration	Abs/cm	ASTM D7624*	>20	5.3		
	Sulfation	Abs/.1mm	ASTM D7415*	>30	18.1		



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