

# **OIL ANALYSIS REPORT**



Component

**Rear Diesel Engine** 

**VALVOLINE 15W40 (26 LTR)** 

Sample Rating Trend



## **DIAGNOSIS**

### Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

### Wear

All component wear rates are normal.

### Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

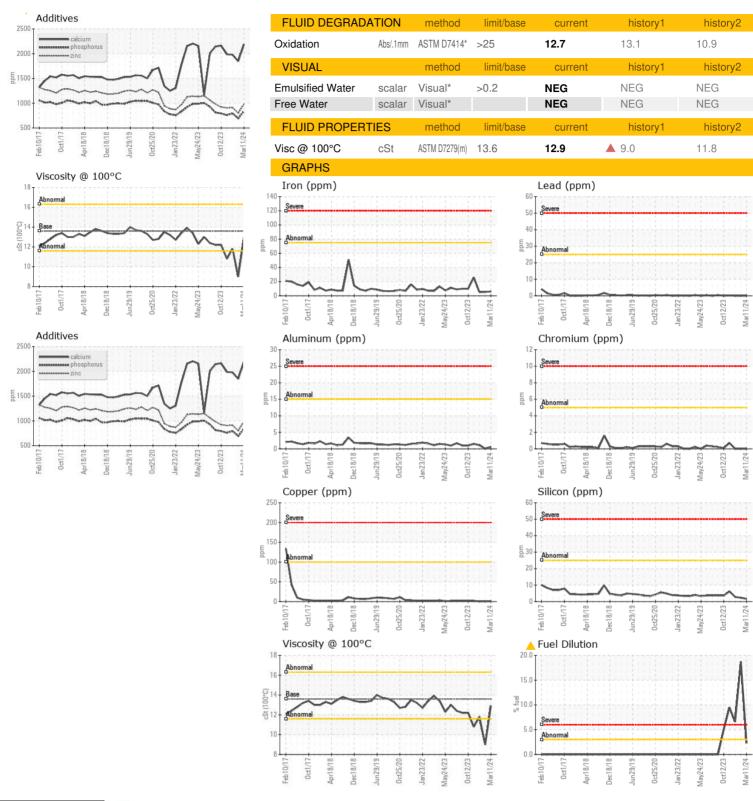
### **Fluid Condition**

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

SAMPLE INFORMATION method limit/base current history1	history2
Sample Number Client Info WC0891773 WC0891754 W	VC0875067
Sample Date Client Info 11 Mar 2024 21 Feb 2024 2	0 Dec 2023
Machine Age         kms         Client Info         570305         564618         5	47689
Oil Age kms Client Info 0 0	
Oil Changed Client Info Changed Changed C	Changed
Sample Status MARGINAL SEVERE S	SEVERE
CONTAMINATION method limit/base current history1	history2
Water WC Method >0.2 NEG NEG	NEG
Glycol WC Method NEG NEG	NEG
WEAR METALS method limit/base current history1	history2
Iron ppm ASTM D5185(m) >75 <b>6</b> 6	5
Chromium         ppm         ASTM D5185(m)         >5         0         0	0
<b>Nickel</b> ppm ASTM D5185(m) >4 <b>&lt;1</b> 0	<1
Titanium         ppm         ASTM D5185(m)         >2         0         0	0
Silver ppm ASTM D5185(m) $>2$ <b>0</b> 0	0
<b>Aluminum</b> ppm ASTM D5185(m) > 15 <b>&lt;1</b> 0	1
	0
Copper         ppm         ASTM D5185(m)         >100         <1	<1
<b>Tin</b> ppm ASTM D5185(m) >4 <b>0</b> 0	0
Antimony         ppm         ASTM D5185(m)         0         0	0
Vanadium ppm ASTM D5185(m) <b>0</b> 0	0
Beryllium         ppm         ASTM D5185(m)         0         0	0
Cadmium ppm ASTM D5185(m) <b>0</b> 0	
pp resoroc()	0
ADDITIVES method limit/base current history1	0 history2
11	
ADDITIVES method limit/base current history1	history2
ADDITIVES         method         limit/base         current         history1           Boron         ppm         ASTM D5185(m)         39         11         7	history2
ADDITIVES         method         limit/base         current         history1           Boron         ppm         ASTM D5185(m)         39         11         7           Barium         ppm         ASTM D5185(m)         1         0         0	history2 12 0
ADDITIVES         method         limit/base         current         history1           Boron         ppm         ASTM D5185(m)         39         11         7           Barium         ppm         ASTM D5185(m)         1         0         0           Molybdenum         ppm         ASTM D5185(m)         49         6         4	history2 12 0 6
ADDITIVES         method         limit/base         current         history1           Boron         ppm         ASTM D5185(m)         39         11         7           Barium         ppm         ASTM D5185(m)         1         0         0           Molybdenum         ppm         ASTM D5185(m)         49         6         4           Manganese         ppm         ASTM D5185(m)         1         0         0           Magnesium         ppm         ASTM D5185(m)         616         56         40           Calcium         ppm         ASTM D5185(m)         1554         2187         1846	history2  12  0  6  0  42  1975
ADDITIVES         method         limit/base         current         history1           Boron         ppm         ASTM D5185(m)         39         11         7           Barium         ppm         ASTM D5185(m)         1         0         0           Molybdenum         ppm         ASTM D5185(m)         49         6         4           Manganese         ppm         ASTM D5185(m)         1         0         0           Magnesium         ppm         ASTM D5185(m)         616         56         40           Calcium         ppm         ASTM D5185(m)         1554         2187         1846           Phosphorus         ppm         ASTM D5185(m)         899         842         693	history2  12  0  6  0  42  1975  795
ADDITIVES         method         limit/base         current         history1           Boron         ppm         ASTM D5185(m)         39         11         7           Barium         ppm         ASTM D5185(m)         1         0         0           Molybdenum         ppm         ASTM D5185(m)         49         6         4           Manganese         ppm         ASTM D5185(m)         1         0         0           Magnesium         ppm         ASTM D5185(m)         616         56         40           Calcium         ppm         ASTM D5185(m)         1554         2187         1846           Phosphorus         ppm         ASTM D5185(m)         899         842         693           Zinc         ppm         ASTM D5185(m)         1069         980         803	history2  12  0  6  0  42  1975  795  909
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ADDITIVES         method         limit/base         current         history1           Boron         ppm         ASTM D5185(m)         39         11         7           Barium         ppm         ASTM D5185(m)         1         0         0           Molybdenum         ppm         ASTM D5185(m)         49         6         4           Manganese         ppm         ASTM D5185(m)         1         0         0           Magnesium         ppm         ASTM D5185(m)         616         56         40           Calcium         ppm         ASTM D5185(m)         1554         2187         1846           Phosphorus         ppm         ASTM D5185(m)         899         842         693           Zinc         ppm         ASTM D5185(m)         1069         980         803	history2  12  0  6  0  42  1975  795  909
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ADDITIVES         method         limit/base         current         history1           Boron         ppm         ASTM D5185(m)         39         11         7           Barium         ppm         ASTM D5185(m)         1         0         0           Molybdenum         ppm         ASTM D5185(m)         49         6         4           Manganese         ppm         ASTM D5185(m)         1         0         0           Magnesium         ppm         ASTM D5185(m)         616         56         40           Calcium         ppm         ASTM D5185(m)         1554         2187         1846           Phosphorus         ppm         ASTM D5185(m)         899         842         693           Zinc         ppm         ASTM D5185(m)         1069         980         803           Sulfur         ppm         ASTM D5185(m)         2624         2829         2349           Lithium         ppm         ASTM D5185(m)         <1         <1           CONTAMINANTS         method         limit/base         current         history1	history2  12  0  6  0  42  1975  795  909  2939  <1  history2
ADDITIVES         method         limit/base         current         history1           Boron         ppm         ASTM D5185(m)         39         11         7           Barium         ppm         ASTM D5185(m)         1         0         0           Molybdenum         ppm         ASTM D5185(m)         49         6         4           Manganese         ppm         ASTM D5185(m)         1         0         0           Magnesium         ppm         ASTM D5185(m)         616         56         40           Calcium         ppm         ASTM D5185(m)         1554         2187         1846           Phosphorus         ppm         ASTM D5185(m)         1069         980         803           Zinc         ppm         ASTM D5185(m)         1069         980         803           Sulfur         ppm         ASTM D5185(m)         2624         2829         2349           Lithium         ppm         ASTM D5185(m)         <1         <1           CONTAMINANTS         method         limit/base         current         history1           Silicon         ppm         ASTM D5185(m)         >25         2         2           Sodium	history2  12 0 6 0 42 1975 795 909 2939 <1 history2 3
ADDITIVES         method         limit/base         current         history1           Boron         ppm         ASTM D5185(m)         39         11         7           Barium         ppm         ASTM D5185(m)         1         0         0           Molybdenum         ppm         ASTM D5185(m)         49         6         4           Manganese         ppm         ASTM D5185(m)         1         0         0           Magnesium         ppm         ASTM D5185(m)         616         56         40           Calcium         ppm         ASTM D5185(m)         1554         2187         1846           Phosphorus         ppm         ASTM D5185(m)         1069         980         803           Zinc         ppm         ASTM D5185(m)         2624         2829         2349           Lithium         ppm         ASTM D5185(m)         2624         2829         2349           Lithium         ppm         ASTM D5185(m)         >25         2         2           Sodium         ppm         ASTM D5185(m)         >25         2         2           Sodium         ppm         ASTM D5185(m)         >20         <1         <1	history2  12  0  6  0  42  1975  795  909  2939  <1  history2  3  1
ADDITIVES         method         limit/base         current         history1           Boron         ppm         ASTM D5185(m)         39         11         7           Barium         ppm         ASTM D5185(m)         1         0         0           Molybdenum         ppm         ASTM D5185(m)         49         6         4           Manganese         ppm         ASTM D5185(m)         1         0         0           Magnesium         ppm         ASTM D5185(m)         616         56         40           Calcium         ppm         ASTM D5185(m)         1554         2187         1846           Phosphorus         ppm         ASTM D5185(m)         1069         980         803           Zinc         ppm         ASTM D5185(m)         2624         2829         2349           Lithium         ppm         ASTM D5185(m)         2624         2829         2349           Lithium         ppm         ASTM D5185(m)         >25         2         2           Sodium         ppm         ASTM D5185(m)         >25         2         2           Sodium         ppm         ASTM D5185(m)         >20         <1         <1	history2  12  0  6  0  42  1975  795  909  2939  <1  history2  3  1  <1
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ADDITIVES         method         limit/base         current         history1           Boron         ppm         ASTM D5185(m)         39         11         7           Barium         ppm         ASTM D5185(m)         1         0         0           Molybdenum         ppm         ASTM D5185(m)         49         6         4           Manganese         ppm         ASTM D5185(m)         1         0         0           Magnesium         ppm         ASTM D5185(m)         616         56         40           Calcium         ppm         ASTM D5185(m)         1554         2187         1846           Phosphorus         ppm         ASTM D5185(m)         1069         980         803           Zinc         ppm         ASTM D5185(m)         1069         980         803           Sulfur         ppm         ASTM D5185(m)         2624         2829         2349           Lithium         ppm         ASTM D5185(m)         >25         2         2           Sodium         ppm         ASTM D5185(m)         >25         2         2           Sodium         ppm         ASTM D5185(m)         >20         <1         <1	history2  12  0  6  0  42  1975  795  909  2939  <1  history2  3  1  <1  6.6  history2



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited

Laboratory

Sample No.

Lab Number : 02625571 Unique Number : 5750690

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0891773 Received : 01 Apr 2024 **Tested** 

: 02 Apr 2024 : 02 Apr 2024 - Wes Davis Diagnosed

Test Package: MOB 1 (Additional Tests: PercentFuel) To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

**MVT Canadian Bus** 

133 Welham Road Barrie, ON **CA L4N 8Y3** 

Contact: Frank Mastromarco frank.mastromarco@mvtransit.com T: (709)792-5033

F: