

#### DOUG HANNA Machine Id FREIGHTLINER 166 Component

Diesel Engine

SHELL ROTELLA T 15W40 (--- GAL)

#### RECOMMENDATION

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR		

All component wear rates are normal.

## CONTAMINATION

Test for glycol is positive. There is a light concentration of glycol present in the oil.

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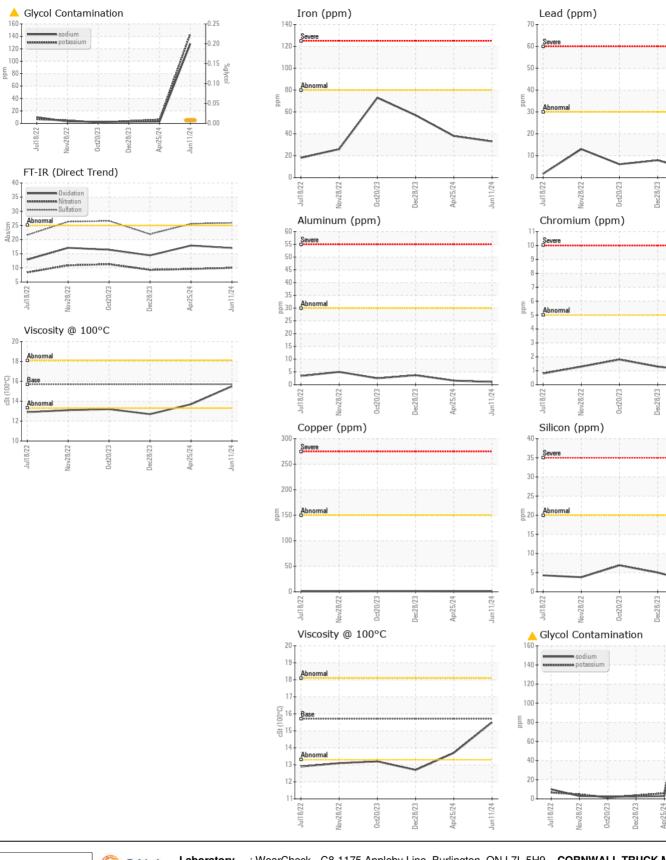
	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0887227	WC0887226	WC0887221
	Sample Date		Client Info		11 Jun 2024	25 Apr 2024	28 Dec 2023
	Machine Age	kms	Client Info		3390665	3368704	3339472
	Oil Age	kms	Client Info		0	0	34502
	Filter Age	kms	Client Info		0	0	34502
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
	Iron	ppm	ASTM D5185(m)	>80	33	38	57
	Chromium	ppm	ASTM D5185(m)	>5	<1	1	1
	Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
	Titanium	ppm	ASTM D5185(m)		0	0	0
	Silver	ppm	ASTM D5185(m)	>3	0	0	0
	Aluminum	ppm	ASTM D5185(m)	>30	1	2	4
	Lead	ppm	ASTM D5185(m)	>30	6	3	8
	Copper	ppm	ASTM D5185(m)	>150	<1	<1	1
	Tin	ppm	ASTM D5185(m)	>5	<1	<1	2
	Vanadium	ppm	ASTM D5185(m)		0	0	0
	Silicon	ppm	ASTM D5185(m)	>20	3	2	5
	Potassium	ppm	ASTM D5185(m)	>20	<b>4</b> 144	6	4
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	%	ASTM D7922*		<b>A</b> 0.012	NEG	NEG
	Soot %	%	ASTM D7844*	>3	2.7	2.1	1.8
	Nitration	Abs/cm	ASTM D7624*	>20	10.0	9.6	9.3
	Sulfation	Abs/.1mm	ASTM D7415*	>30	25.9	25.6	21.9
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
.	Sodium	ppm	ASTM D5185(m)		<b>128</b>	3	2
	Boron	ppm	ASTM D5185(m)	35	43	90	28
	Barium	ppm	ASTM D5185(m)	0	<1	<1	0
	Molybdenum	ppm	ASTM D5185(m)	0	13	20	86
	Manganese	ppm	ASTM D5185(m)	0	<1	<1	0
	Magnesium	ppm	ASTM D5185(m)	10	27	90	115
	Calcium	ppm	ASTM D5185(m)	2340	1955	2107	2080
	Phosphorus	ppm	ASTM D5185(m)	1110	840	901	978
	Zinc	ppm	ASTM D5185(m)	1210	1004	1089	1127
	Sulfur	ppm	ASTM D5185(m)	3890	2603	2678	2996
	Oxidation	Abs/.1mm	ASTM D7414*	>25	17.0	17.9	14.4
	Visc @ 100°C	cSt	ASTM D7279(m)	15.7	15.5	13.7	12.7

### FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Contact/Location: CTM SERVICE - CORCOR

# WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION ATTENTION



CORNWALL TRUCK MAINTENANCE Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. Received P.O. BOX 1828, 1930 McCONNEL AVENUE : WC0887227 : 14 Jun 2024 Lab Number CORNWALL, ON : 02641923 Tested : 19 Jun 2024 ISO 17025:2017 Accredited : 19 Jun 2024 - Kevin Marson CA K6H 6N6 Unique Number : 5799462 Diagnosed Laboratory Test Package : MOB 1 (Additional Tests: Glycol) Contact: CTM SERVICE Service@CTMVOLVO.com To discuss this sample report, contact Customer Service at 1-800-268-2131. T: (613)936-1585 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F: (613)936-2149 Validity of results and interpretation are based on the sample and information as supplied.

Contact/Location: CTM SERVICE - CORCOR Page 2 of 2

Apr25/24

vpr25/24

Apr25/24

11/24

0.22

0.18

0.16

0.12 දූ

0 10

0.08

0.06

0.04

0.02

0.00

Jun11/24

un11/24

in11/24