

## Machine Id EGR31111 Component Diesel Engine Fluid SHELL ROTELLA T 15W40 (56 LTR)

## 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.

W	FΔ	R

All component wear rates are normal.

## **CONTAMINATION**

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

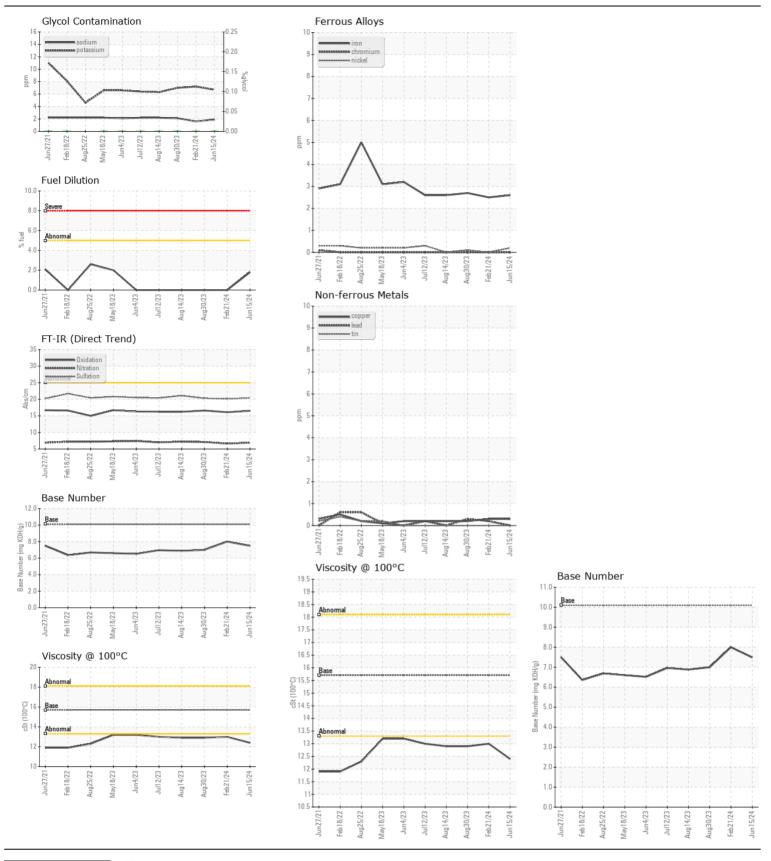
## **FLUID CONDITION**

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

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0739320	WC0739316	WC0739328
Sample Date		Client Info		15 Jun 2024	21 Feb 2024	30 Aug 2023
Machine Age	hrs	Client Info		10800	10400	9200
Oil Age	hrs	Client Info		400	400	400
Filter Age	hrs	Client Info		400	400	400
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>100	3	2	3
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	2	0
Aluminum	ppm	ASTM D5185(m)	>20	1	1	<1
Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>25	2	2	2
Potassium	ppm	ASTM D5185(m)	>20	7	7	7
Fuel	%	ASTM D7593*	>5	1.8	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	0.0	0.0
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	6.9	6.6	7.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.4	20.1	20.3
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		2	2	2
Boron	ppm	ASTM D5185(m)	35	142	155	140
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	2	2	2
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	10	17	17	18
Calcium	ppm	ASTM D5185(m)	2340	2099	2173	2209
Phosphorus	ppm	ASTM D5185(m)	1110	894	922	1030
Zinc	ppm	ASTM D5185(m)	1210	1107	1105	1152
Sulfur	ppm	ASTM D5185(m)	3890	2815	2986	2972
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.5	16.1	16.6
Base Number (BN)	mg KOH/g	ASTM D2896*	10.1	7.49	8.00	7.00
Visc @ 100°C	cSt	ASTM D7279(m)	15.7	12.4	13.0	12.9

Contact/Location: Chief Engineer - CCGEGR



DFO, CCGS EARL GREY Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. Received : 25 Jun 2024 PO BOX 1006, 1 CHALLENGER DR. : WC0739320 fē Lab Number : 02643877 DARTMOUTH, NS Tested : 26 Jun 2024 ISO 17025:2017 : 26 Jun 2024 - Wes Davis Accredited CA B2Y 4A2 Unique Number : 5801416 Diagnosed Laboratory Test Package : MAR 2 (Additional Tests: FuelDilution, Glycol, PercentFuel) Contact: Chief Engineer To discuss this sample report, contact Customer Service at 1-800-268-2131. earlgreyCE@EGR.ccgs-ngcc.gc.ca Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (902)456-9285 Validity of results and interpretation are based on the sample and information as supplied. F: (902)456-9285

Contact/Location: Chief Engineer - CCGEGR Page 2 of 2