



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
EGR-3112 #2 SHIP SERVICE GEN
 Component
Diesel Engine
 Fluid
SHELL ROTELLA T4 15W40 (55 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0739319	WC0869973	WC0869962
Sample Date		Client Info		07 Jun 2024	21 May 2024	04 May 2024
Machine Age	hrs	Client Info		36800	36400	36000
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

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>80	3	3	3
Chromium	ppm	ASTM D5185(m)	>6	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	0	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>95	0	0	0
Copper	ppm	ASTM D5185(m)	>85	<1	0	0
Tin	ppm	ASTM D5185(m)	>9	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

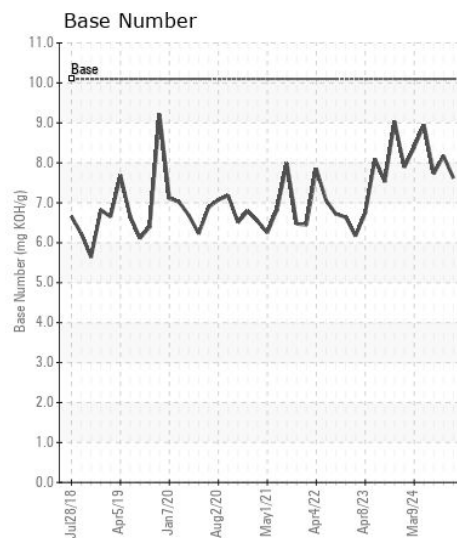
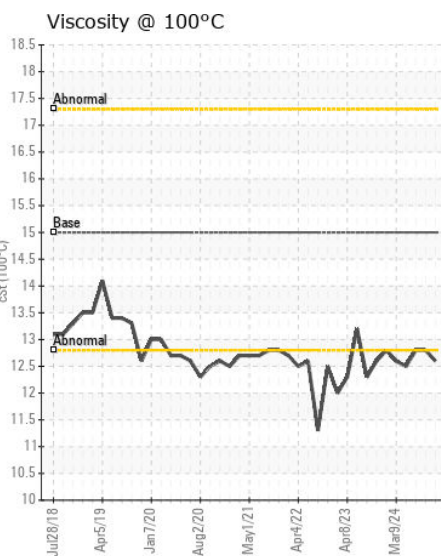
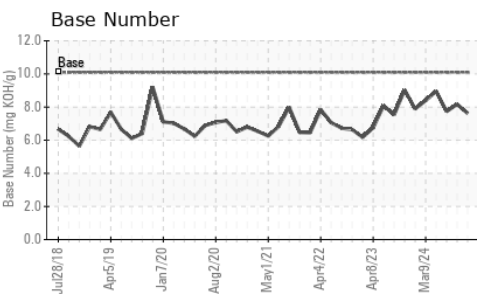
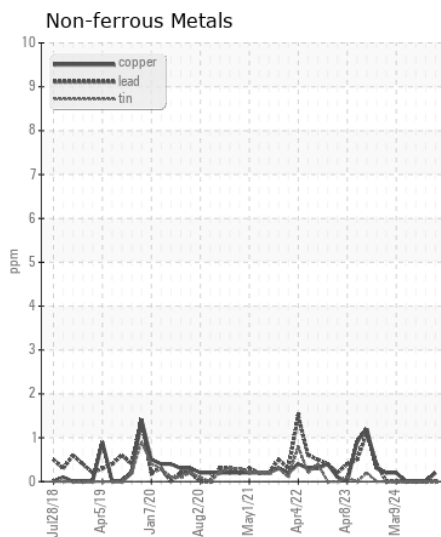
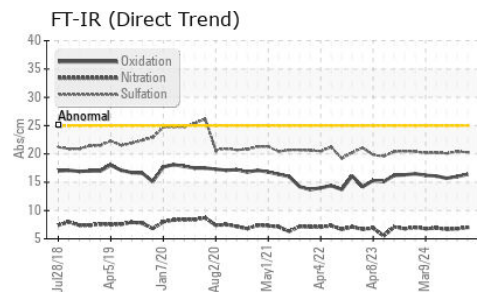
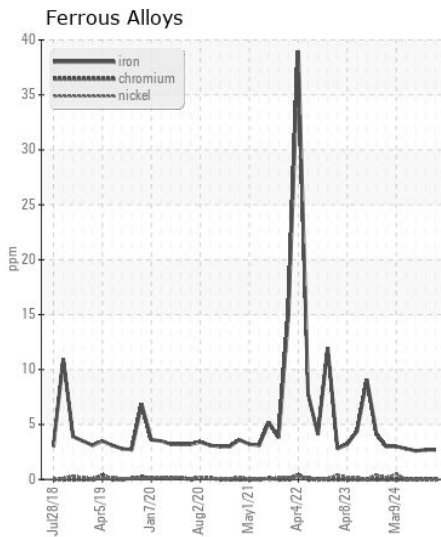
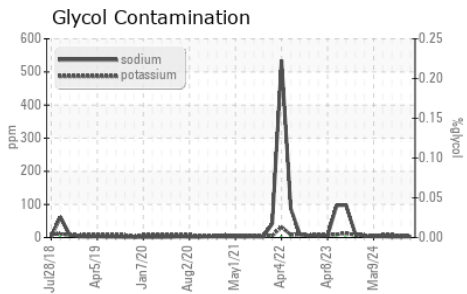
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	7	7	7
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	0.0	0.0
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	7.0	6.8	6.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.3	20.4	20.1
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG

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.

Sodium	ppm	ASTM D5185(m)		3	2	2
Boron	ppm	ASTM D5185(m)		136	143	151
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		2	1	1
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		16	17	17
Calcium	ppm	ASTM D5185(m)		2068	2167	2199
Phosphorus	ppm	ASTM D5185(m)		901	942	942
Zinc	ppm	ASTM D5185(m)		1098	1124	1110
Sulfur	ppm	ASTM D5185(m)		2815	2828	2834
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.4	16.0	15.7
Base Number (BN)	mg KOH/g	ASTM D2896*	10.1	7.62	8.17	7.73
Visc @ 100°C	cSt	ASTM D7279(m)	15	12.6	12.8	12.8



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0739319 **Received** : 25 Jun 2024
Lab Number : **02643878** **Tested** : 26 Jun 2024
Unique Number : 5801417 **Diagnosed** : 26 Jun 2024 - Wes Davis
Test Package : MAR 2 (Additional Tests: Glycol)

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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.