



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

## SOLD LOCATIONS - LESCAM - CAMBRIDGE

Area

Machine Id

1065

Component

Diesel Engine

Fluid

SHELL ROTELLA T 15W40 (--- GAL)

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0050899</b>	LEC0050200	LEC0048342
Sample Date		Client Info		<b>03 Jul 2024</b>	08 May 2024	18 Mar 2024
Machine Age	hrs	Client Info		<b>29518</b>	29190	28853
Oil Age	hrs	Client Info		<b>400</b>	400	400
Filter Age	hrs	Client Info		<b>400</b>	400	400
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>8</b>	10	17
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	1	2
Titanium	ppm	ASTM D5185m		<b>2</b>	1	2
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	3	4
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	1	2
Copper	ppm	ASTM D5185m	>330	<b>2</b>	2	6
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	2
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

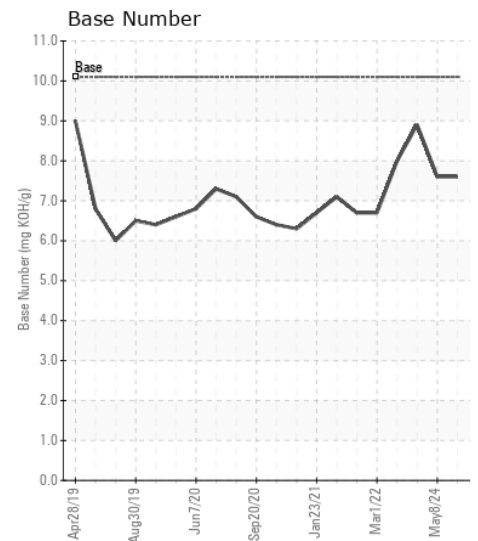
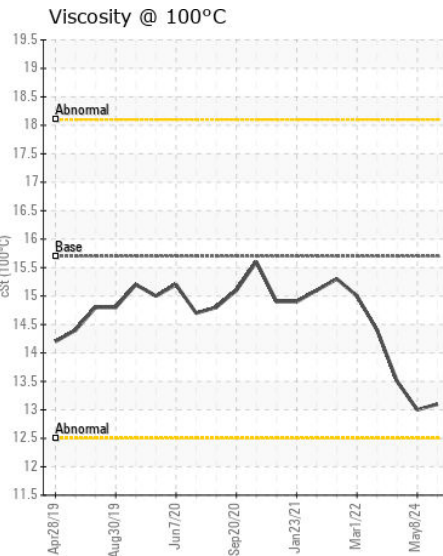
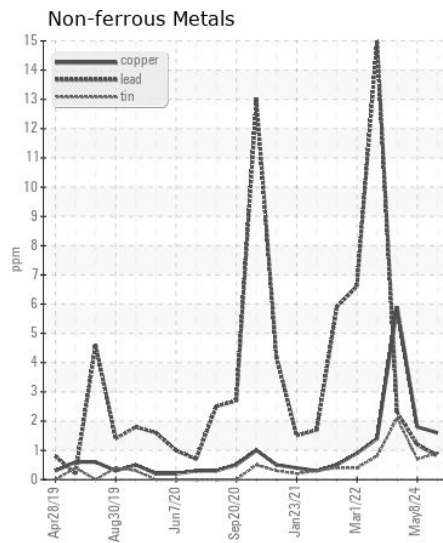
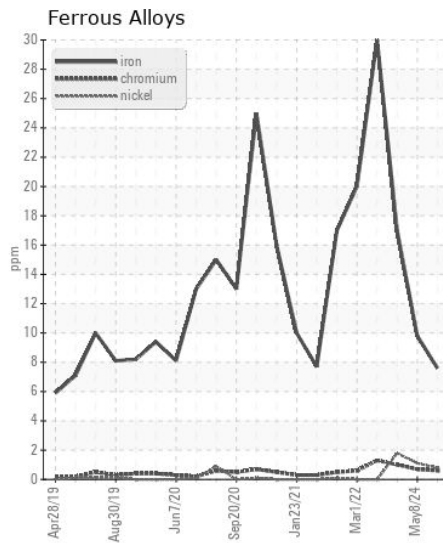
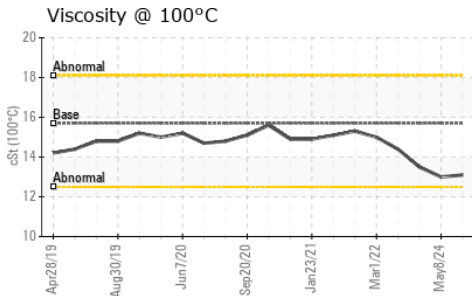
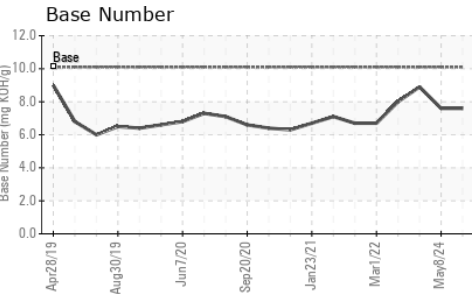
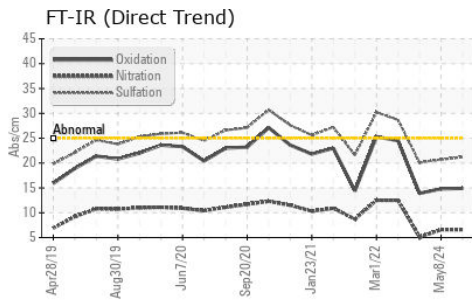
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	<b>8</b>	13	▲ 28
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	2	6
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.6</b>	6.6	5.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.2</b>	20.7	20.1
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	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 D5185m		<b>0</b>	2	3
Boron	ppm	ASTM D5185m	316	<b>417</b>	408	344
Barium	ppm	ASTM D5185m	0.0	<b>&lt;1</b>	1	8
Molybdenum	ppm	ASTM D5185m	1.2	<b>89</b>	91	86
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	4
Magnesium	ppm	ASTM D5185m	24	<b>419</b>	473	443
Calcium	ppm	ASTM D5185m	2292	<b>1442</b>	1636	1756
Phosphorus	ppm	ASTM D5185m	1064	<b>957</b>	968	901
Zinc	ppm	ASTM D5185m	1160	<b>1165</b>	1176	1070
Sulfur	ppm	ASTM D5185m	4996	<b>3020</b>	3793	3224
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.9</b>	14.8	13.9
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	<b>7.6</b>	7.6	8.9
Visc @ 100°C	cSt	ASTM D445	15.7	<b>13.1</b>	13.0	13.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0050899 **Received** : 18 Jul 2024  
**Lab Number** : 06239903 **Tested** : 18 Jul 2024  
**Unique Number** : 11128737 **Diagnosed** : 19 Jul 2024 - Don Baldridge  
**Test Package** : CONST ( Additional Tests: TBN )

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To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)