



# OIL ANALYSIS REPORT

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

Area  
**STEELE ENTERPRISE**

Machine Id  
**1024**

Component  
**Diesel Engine**

Fluid  
**SHELL ROTELLA T 15W40 (--- GAL)**

## RECOMMENDATION

Oil and filter change at the time of sampling has been noted.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>KL0001543</b>	---	---
Sample Date		Client Info		<b>23 Jun 2007</b>	---	---
Machine Age	kms	Client Info		<b>663972</b>	---	---
Oil Age	kms	Client Info		<b>65926</b>	---	---
Filter Age	kms	Client Info		<b>65926</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>Changed</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

## WEAR

The lead level is marginal.

Iron	ppm	ASTM D5185(m)		<b>70</b>	---	---
Chromium	ppm	ASTM D5185(m)		<b>2</b>	---	---
Nickel	ppm	ASTM D5185(m)		<b>0</b>	---	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)		<b>2</b>	---	---
Lead	ppm	ASTM D5185(m)		<b>▲ 41</b>	---	---
Copper	ppm	ASTM D5185(m)		<b>2</b>	---	---
Tin	ppm	ASTM D5185(m)		<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---

## CONTAMINATION

There is no indication of any contamination in the component.

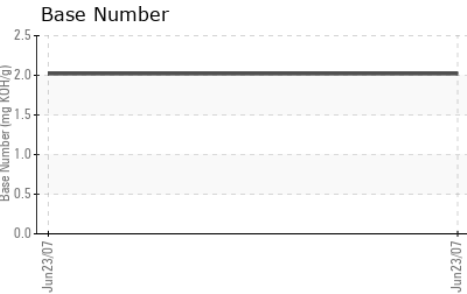
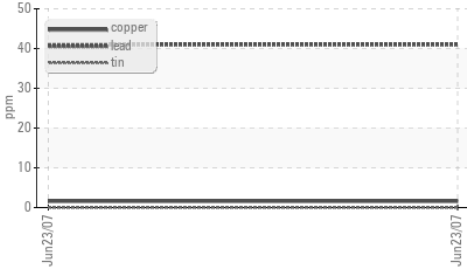
Silicon	ppm	ASTM D5185(m)		<b>9</b>	---	---
Potassium	ppm	ASTM D5185(m)		<b>3</b>	---	---
Fuel		WC Method		<b>&lt;1.0</b>	---	---
Water		WC Method		<b>NEG</b>	---	---
Glycol		WC Method		<b>NEG</b>	---	---
Soot %	%	ASTM D7844*		<b>1.3</b>	---	---
Nitration	Abs/cm	ASTM D7624*		<b>11</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415*		<b>30</b>	---	---
Emulsified Water	scalar	Visual*		<b>NEG</b>	---	---

## FLUID CONDITION

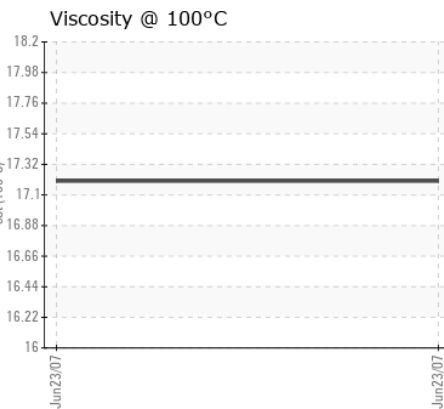
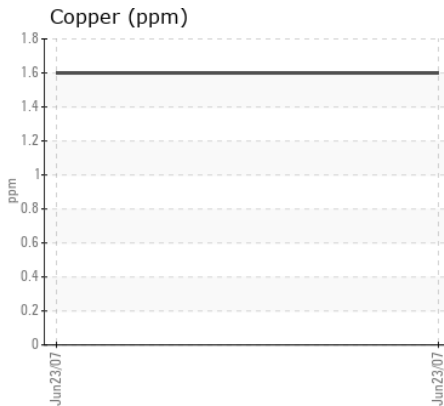
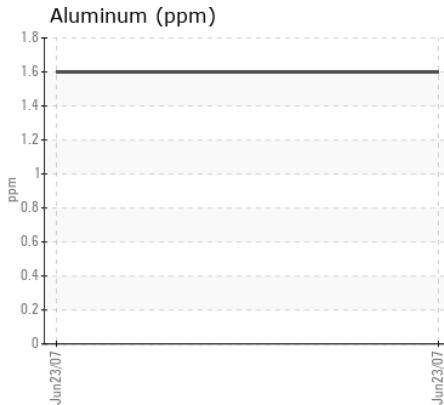
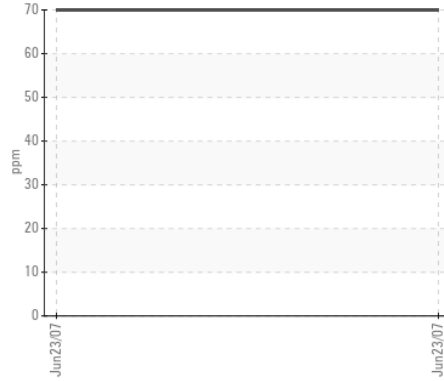
The oil is highly oxidized and beyond the limit of serviceability. The low TBN value indicates relatively little reserve alkalinity remaining in this oil.

Sodium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Boron	ppm	ASTM D5185(m)		<b>19</b>	---	---
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Molybdenum	ppm	ASTM D5185(m)		<b>2</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185(m)		<b>7</b>	---	---
Calcium	ppm	ASTM D5185(m)		<b>2336</b>	---	---
Phosphorus	ppm	ASTM D5185(m)		<b>1004</b>	---	---
Zinc	ppm	ASTM D5185(m)		<b>1220</b>	---	---
Sulfur	ppm	ASTM D5185(m)		<b>2713</b>	---	---
Oxidation	Abs/.1mm	ASTM D7414*		<b>28</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*		<b>▲ 2.02</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		<b>17.2</b>	---	---

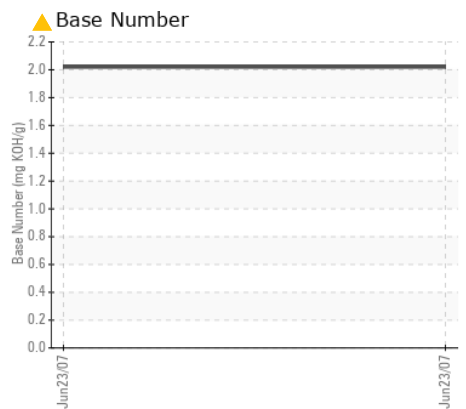
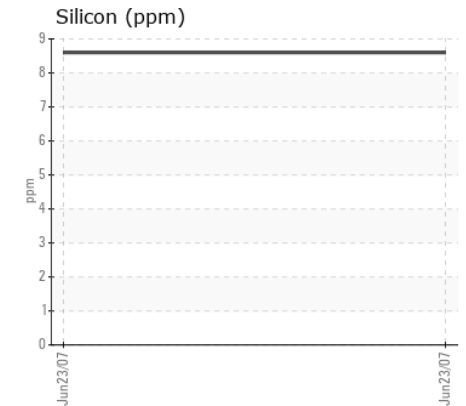
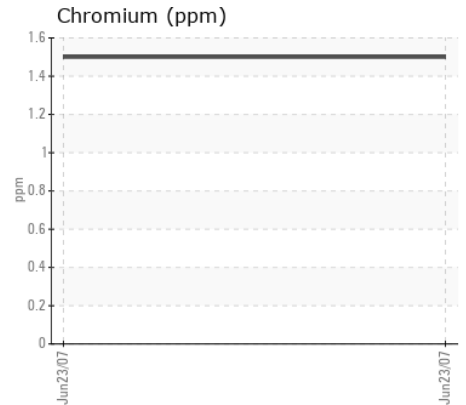
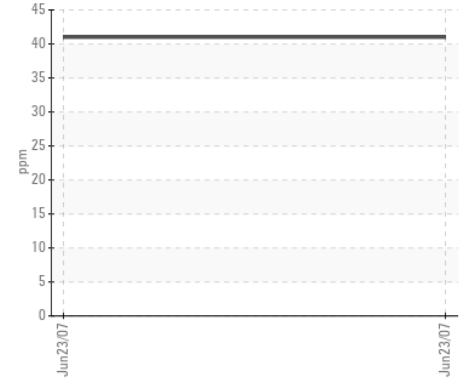
▲ Non-ferrous Metals



Iron (ppm)



▲ Lead (ppm)



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : KL0001543 **Received** : 20 Jul 2007  
**Lab Number** : **01397251** **Tested** : 23 Jul 2007  
**Unique Number** : 2487726 **Diagnosed** :  
**Test Package** : MOB1+

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.

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