



# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**LITHOMAN 3 PRINT UNIT #4 (S/N 1025133)**  
 Component  
**Gearbox**  
 Fluid  
**ZEPF TRANSMISSION 68 (80 LTR)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.  
 NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the component.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC904536</b>	---	---
Sample Date	Client Info			<b>31 Aug 2014</b>	---	---
Machine Age	hrs	Client Info		<b>10470</b>	---	---
Oil Age	hrs	Client Info		<b>10470</b>	---	---
Oil Changed	Client Info			<b>Not Chngd</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.2	<b>NEG</b>	---	---

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		<b>13</b>	---	---
Iron	ppm	ASTM D5185(m)	>200	<b>11</b>	---	---
Chromium	ppm	ASTM D5185(m)	>15	<b>0</b>	---	---
Nickel	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>25	<b>&lt;1</b>	---	---
Lead	ppm	ASTM D5185(m)	>100	<b>8</b>	---	---
Copper	ppm	ASTM D5185(m)	>200	<b>60</b>	---	---
Tin	ppm	ASTM D5185(m)	>25	<b>1</b>	---	---
Antimony	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---

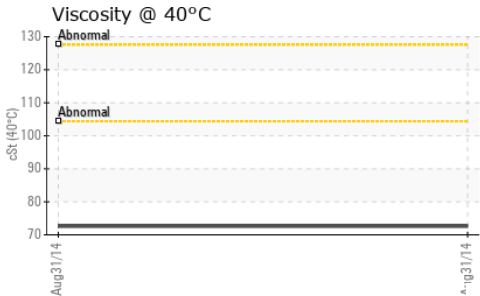
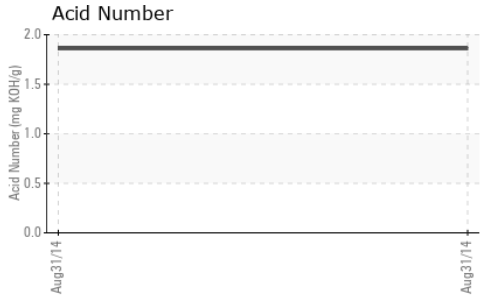
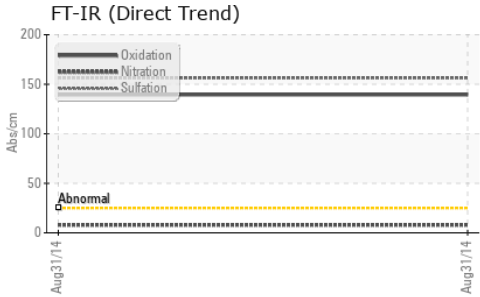
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<b>1</b>	---	---
Barium	ppm	ASTM D5185(m)		<b>2</b>	---	---
Molybdenum	ppm	ASTM D5185(m)		<b>7</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>16</b>	---	---
Magnesium	ppm	ASTM D5185(m)		<b>3</b>	---	---
Calcium	ppm	ASTM D5185(m)		<b>25</b>	---	---
Phosphorus	ppm	ASTM D5185(m)		<b>1522</b>	---	---
Zinc	ppm	ASTM D5185(m)		<b>632</b>	---	---
Sulfur	ppm	ASTM D5185(m)		<b>26730</b>	---	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	<b>12</b>	---	---
Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>6</b>	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624*		<b>7.9</b>	---	---
Sulfation	Abs./1mm	ASTM D7415*		<b>156.2</b>	---	---



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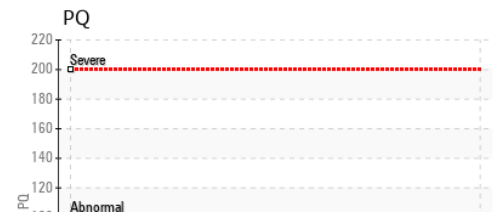
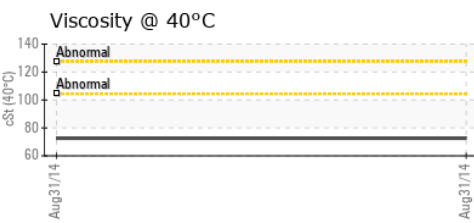
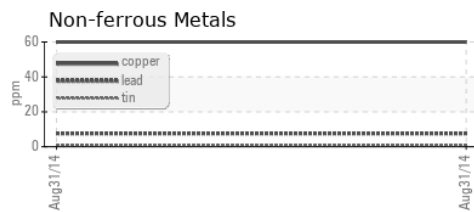
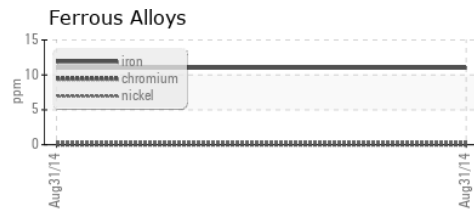
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*		<b>139.4</b>	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*		<b>1.86</b>	---	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	---	---
Free Water	scalar	Visual*		<b>NEG</b>	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)		<b>72.6</b>	---	---

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9    **Watch Tower Bible and Tract Society of Canada**  
**Sample No.** : WC904536    **Received** : 18 Sep 2014    13893 Highway 7  
**Lab Number** : **01945168**    **Tested** : 23 Sep 2014    Georgetown, ON  
**Unique Number** : 3979313    **Diagnosed** : 23 Sep 2014 - Wes Davis    CA L7G 4S4  
**Test Package** : IND 2 ( Additional Tests: FT-IR )    **Contact:** Purchasing Department

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.