



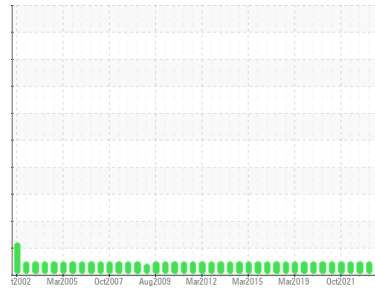
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**[202942]**  
 Machine Id  
**LWN G1 EXBR**  
 Component  
**Bearing**  
 Fluid  
**ESSO TERESSO ISO 68 (5 LTR)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: This is not new oil as the report says it's the oil that's in the bearing now)

### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

### 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>WC0299264</b>	WC0445233	WC0299260
Sample Date	Client Info	<b>12 Oct 2023</b>	21 Mar 2023	17 Oct 2022
Machine Age	hrs	<b>0</b>	0	1984
Oil Age	hrs	<b>0</b>	0	1984
Oil Changed	Client Info	<b>Not Changed</b>	Not Changed	N/A
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185(m)	>63	<b>0</b>	<1	0
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>161	<b>2</b>	4	3
Copper	ppm	ASTM D5185(m)	>13	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>27	<b>2</b>	5	3
Antimony	ppm	ASTM D5185(m)		<b>0</b>	1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185(m)	4.5	<b>&lt;1</b>	<1	<1
Barium	ppm	ASTM D5185(m)	0.4	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	0
Calcium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Phosphorus	ppm	ASTM D5185(m)	0.7	<b>2</b>	0	0
Zinc	ppm	ASTM D5185(m)	0	<b>4</b>	4	4
Sulfur	ppm	ASTM D5185(m)	1315	<b>2392</b>	2455	2445
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

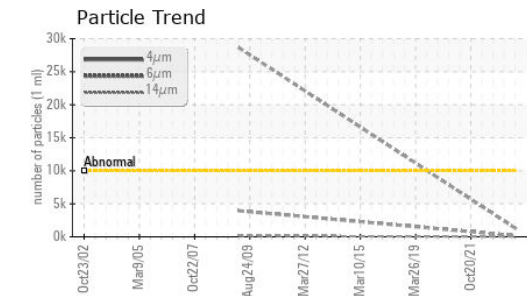
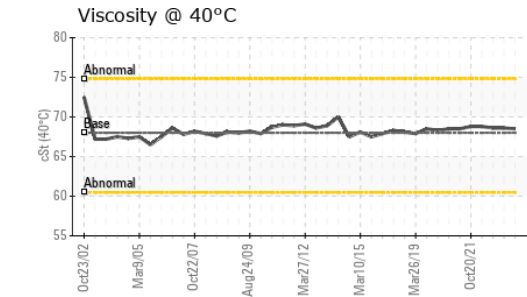
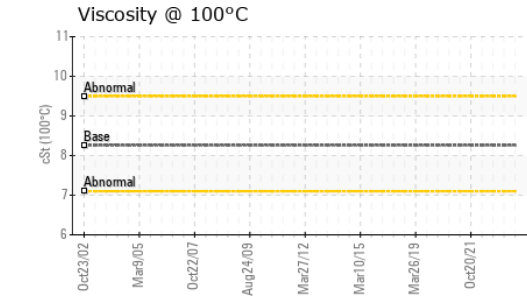
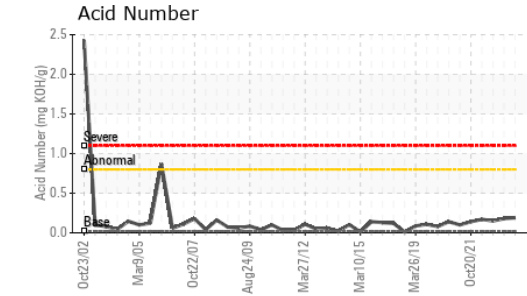
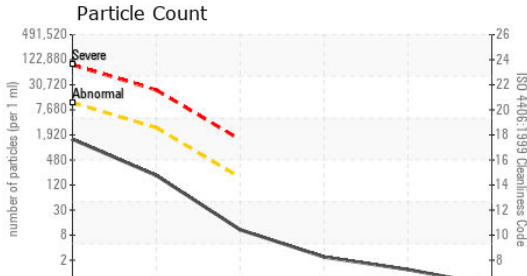
method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)	>12	<b>0</b>	<1	<1
Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0

## INFRA-RED

method	limit/base	current	history1	history2		
Soot %	%	ASTM D7844*		<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624*		<b>2.7</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415*		<b>12.9</b>	---	---



# OIL ANALYSIS REPORT



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	<b>1326</b>	---	---
Particles >6µm	ASTM D7647	>2500	<b>179</b>	---	---
Particles >14µm	ASTM D7647	>160	<b>9</b>	---	---
Particles >21µm	ASTM D7647	>40	<b>2</b>	---	---
Particles >38µm	ASTM D7647	>10	<b>1</b>	---	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>20/18/14	<b>18/15/10</b>	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	<b>4.4</b>	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*	<b>0.19</b>	0.18	0.15

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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	<b>68.5</b>	68.6	68.6
Visc @ 100°C	cSt	ASTM D7279(m)	<b>8.7</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	<b>98</b>	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0299264  
**Lab Number** : **02592403**  
**Unique Number** : 5669482  
**Test Package** : IND 2 ( Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TAN Man, VI )  
 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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