



# PROBLEM SUMMARY

Sample Rating Trend

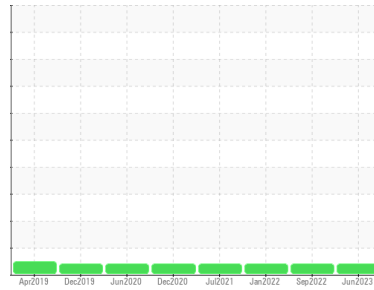
VISCOSITY



## Machine Id ROTARY AIR LOCK SILO #1 GEARBOX

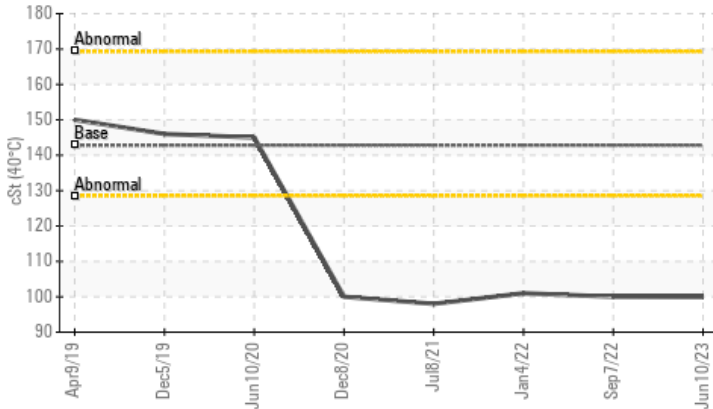
Component  
Gearbox  
Fluid

MOBIL SHC 629 (--- GAL)



### COMPONENT CONDITION SUMMARY

#### ▲ Viscosity @ 40°C



### RECOMMENDATION

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

### PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Visc @ 40°C	cSt	ASTM D7279(m)	142.8	▲ 99.9	▲ 100	▲ 101

Customer Id: ONTATI  
Sample No.: WC0822019  
Lab Number: 02604241  
Test Package: IND 1



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Kevin Marson +1 (289)291-4644 x4644  
[Kevin.Marson@wearcheck.com](mailto:Kevin.Marson@wearcheck.com)

To change component or sample information:  
Gloria Gonzalez +1 (289)291-4643 x4643  
[gloria.gonzalez@wearcheck.com](mailto:gloria.gonzalez@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Information Required	---	---	?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

## HISTORICAL DIAGNOSIS

### 07 Sep 2022 Diag: Kevin Marson

#### VISCOSITY



Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 100 range, advise investigate. The condition of the oil is acceptable for the time in service.

[view report](#)



### 04 Jan 2022 Diag: Kevin Marson

#### VISCOSITY



Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 100 range, advise investigate. The condition of the oil is acceptable for the time in service.

[view report](#)



### 08 Jul 2021 Diag: Kevin Marson

#### VISCOSITY



Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 100 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

[view report](#)





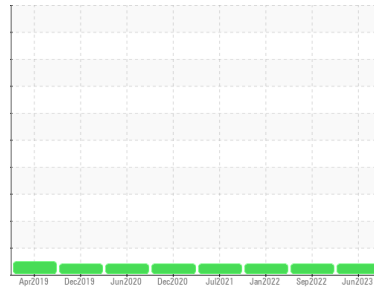
# OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY



Machine Id  
**ROTARY AIR LOCK SILO #1 GEARBOX**  
 Component  
**Gearbox**  
 Fluid  
**MOBIL SHC 629 (--- GAL)**



## 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 oil.

### Fluid Condition

Viscosity of sample indicates oil is within ISO 100 range, advise investigate. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0822019</b>	WC0706918	WC0647150
Sample Date	Client Info		<b>10 Jun 2023</b>	07 Sep 2022	04 Jan 2022
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>200	<b>16</b>	11	20
Chromium	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	0	<1
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)	>25	<b>&lt;1</b>	0	<1
Lead	ppm	ASTM D5185(m)	>100	<b>0</b>	0	<1
Copper	ppm	ASTM D5185(m)	>200	<b>&lt;1</b>	0	<1
Tin	ppm	ASTM D5185(m)	>25	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
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

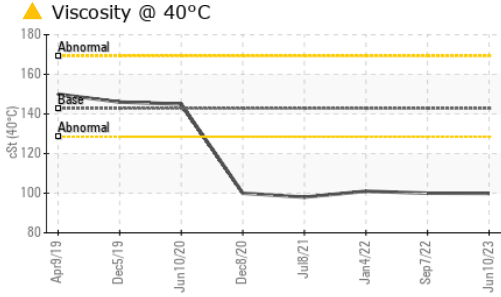
	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		<b>5</b>	6	7
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Calcium	ppm	ASTM D5185(m)		<b>2</b>	<1	1
Phosphorus	ppm	ASTM D5185(m)		<b>806</b>	934	892
Zinc	ppm	ASTM D5185(m)		<b>13</b>	11	12
Sulfur	ppm	ASTM D5185(m)		<b>805</b>	894	948
Lithium	ppm	ASTM D5185(m)		<b>8</b>	3	9

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>50	<b>16</b>	19	17
Sodium	ppm	ASTM D5185(m)		<b>1</b>	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	<1



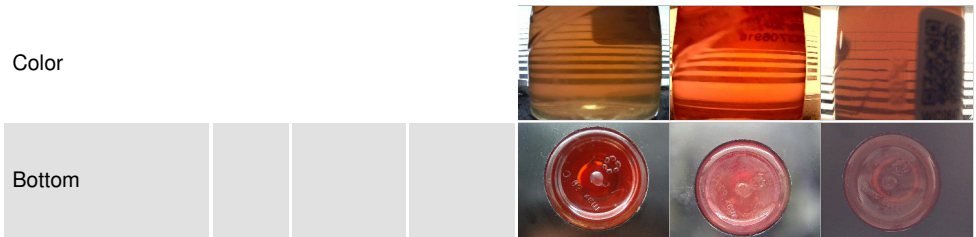
# OIL ANALYSIS REPORT



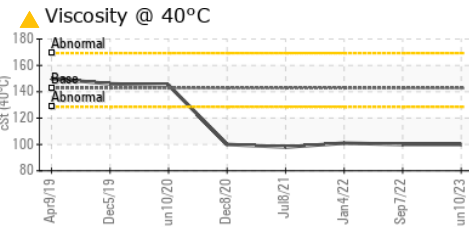
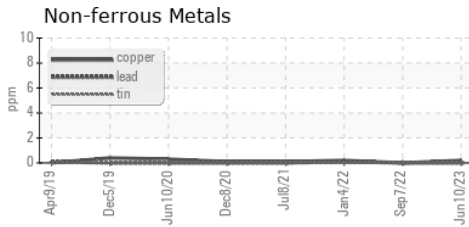
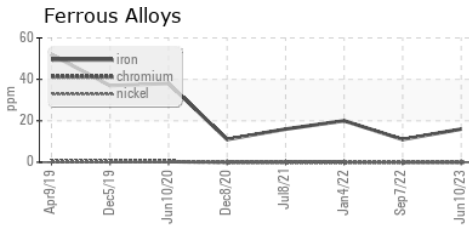
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	142.8 ▲ 99.9	▲ 100	▲ 101

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0822019 **Recieved** : 19 Dec 2023  
**Lab Number** : 02604241 **Diagnosed** : 19 Dec 2023  
**Unique Number** : 5697326 **Diagnostician** : Kevin Marson  
**Test Package** : IND 1

**Ontario Power Generation**  
 ATIKOKAN T.G.S., BOX 1900  
 ATIKOKAN, ON  
 CA P0T 1C0  
 Contact: Dale Anthony  
 dale.anthony@opg.com  
 T:  
 F: (807)597-1198

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.