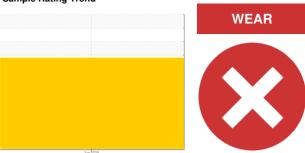


## **PROBLEM SUMMARY**

Sample Rating Trend



Machine Id

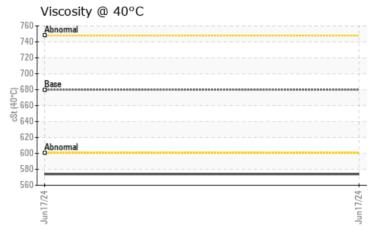
# **TUNDISH ROLLOVER**

Gearbox

GEAR OIL ISO 680 (--- GAL)

## **COMPONENT CONDITION SUMMARY**





### RECOMMENDATION

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL ISO 680. Please confirm. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE					
Copper	ppm	ASTM D5185(m)	>200	▲ 557					
Tin	mqq	ASTM D5185(m)	>25	<b>42</b>					

Customer Id: LEWBOSC **Sample No.:** WC0956580 **Lab Number:** 02642690 Test Package: IND 2



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

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

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Fluid			?	We recommend that you drain the oil from the component if this has not already been done.			
Resample			?	We recommend an early resample to monitor this condition.			
Alert			?	Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment.			
Information Required			?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.			

# HISTORICAL DIAGNOSIS



## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# TUNDISH ROLLOVER

Gearbox

GEAR OIL ISO 680 (--- GAL)

## **DIAGNOSIS**

#### Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL ISO 680. Please confirm. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Copper ppm levels are severe. Tin ppm levels are abnormal. Bearing and/or bushing wear is indicated.

#### Contamination

There is no indication of any contamination in the oil.

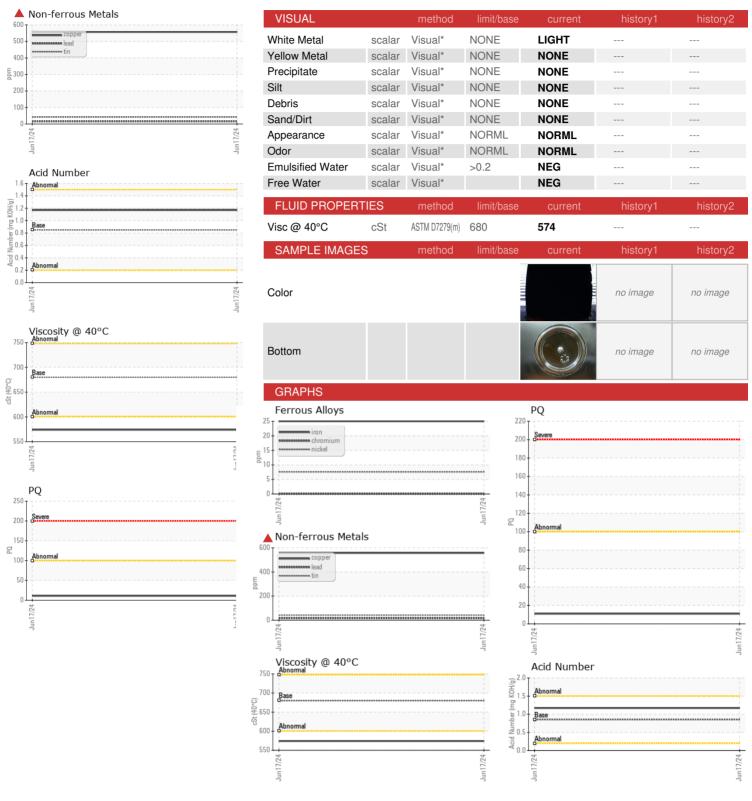
## **Fluid Condition**

The oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0956580		
Sample Date		Client Info		17 Jun 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
CONTAMINATION	٧	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*	>DFLT	11		
Iron	ppm	ASTM D5185(m)	>200	25		
Chromium	ppm	ASTM D5185(m)	>15	0		
Nickel	ppm	ASTM D5185(m)	>15	8		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>25	<1		
Lead	ppm	ASTM D5185(m)	>100	16		
Copper	ppm	ASTM D5185(m)	>200	<b>▲</b> 557		
Tin	ppm	ASTM D5185(m)	>25	<b>42</b>		
Antimony	ppm	ASTM D5185(m)	>5	0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	50	1		
Barium	ppm	ASTM D5185(m)	15	<1		
Molybdenum	ppm	ASTM D5185(m)	15	<1		
Manganese	ppm	ASTM D5185(m)		<1		
Magnesium	ppm	ASTM D5185(m)	50	2		
Calcium	ppm	ASTM D5185(m)	50	4		
Phosphorus	ppm	ASTM D5185(m)	350	239		
Zinc	ppm	ASTM D5185(m)	100	2		
Sulfur	ppm	ASTM D5185(m)	12500	8091		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	4		
Sodium	ppm	ASTM D5185(m)		2		
Potassium	ppm	ASTM D5185(m)	>20	0		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
I LOID DEGITADA	· · · <u>· · ·                           </u>				inotory i	



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

: WC0956580 Lab Number : 02642690 Unique Number : 5800229 Test Package : IND 2 ( Additional Tests: TAN Man )

Received **Tested** Diagnosed

: 18 Jun 2024 : 19 Jun 2024 : 19 Jun 2024 - Kevin Marson

STELCO - BOSC - Basic Oxygen Slab Caster 2330 Regional Road #3, Door: BOSC8 NANTICOKE, ON

CA NOA 1L0 Contact: Tom Walden Thomas.Walden@stelco.com T: (519)587-4541

Validity of results and interpretation are based on the sample and information as supplied. F: (519)587-7702

Contact/Location: Tom Walden - LEWBOSC

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.