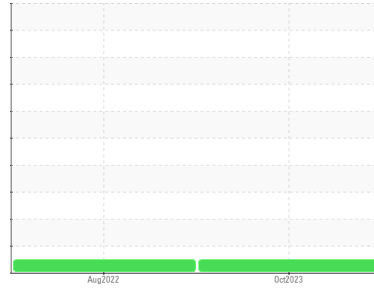


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**BERLYN 05D**  
 Component  
**Gear Extruder**  
 Fluid  
**GEAR OIL ISO 320 (--- 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. Please specify the brand, type, and viscosity of the oil on your next sample.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### 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>AW0004033</b>	AW0003997	---
Sample Date	Client Info		<b>03 Oct 2023</b>	14 Aug 2022	---
Machine Age	mths	Client Info	<b>0</b>	0	---
Oil Age	mths	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	Changed	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		<b>0</b>	---	---
Iron	ppm	ASTM D5185(m) >150	<b>17</b>	18	---
Chromium	ppm	ASTM D5185(m) >10	<b>0</b>	0	---
Nickel	ppm	ASTM D5185(m) >10	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185(m)	<b>0</b>	<1	---
Silver	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185(m) >25	<b>&lt;1</b>	0	---
Lead	ppm	ASTM D5185(m) >100	<b>0</b>	0	---
Copper	ppm	ASTM D5185(m) >50	<b>&lt;1</b>	<1	---
Tin	ppm	ASTM D5185(m) >10	<b>0</b>	0	---
Antimony	ppm	ASTM D5185(m) >5	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 50	<b>6</b>	5	---
Barium	ppm	ASTM D5185(m) 15	<b>&lt;1</b>	0	---
Molybdenum	ppm	ASTM D5185(m) 15	<b>0</b>	0	---
Manganese	ppm	ASTM D5185(m)	<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185(m) 50	<b>0</b>	<1	---
Calcium	ppm	ASTM D5185(m) 50	<b>2</b>	2	---
Phosphorus	ppm	ASTM D5185(m) 350	<b>397</b>	436	---
Zinc	ppm	ASTM D5185(m) 100	<b>6</b>	6	---
Sulfur	ppm	ASTM D5185(m) 12500	<b>2433</b>	2660	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	---

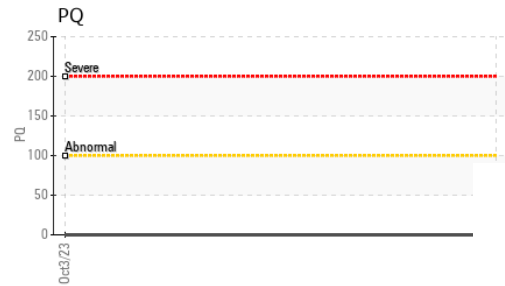
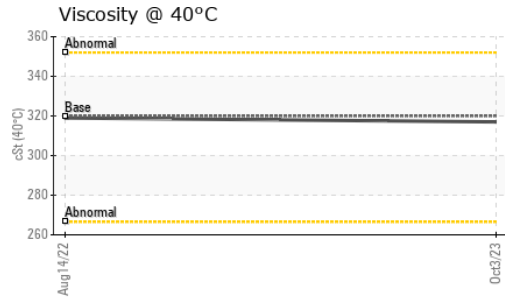
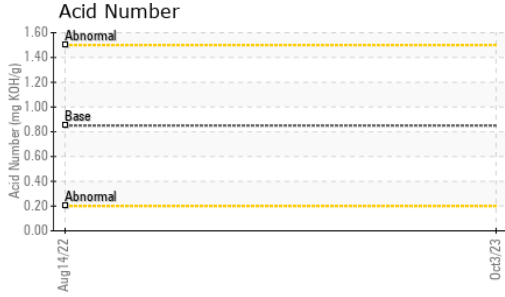
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	<b>47</b>	45	---
Sodium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	---
Potassium	ppm	ASTM D5185(m) >20	<b>0</b>	0	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974* 0.85	<b>1.04</b>	---	---

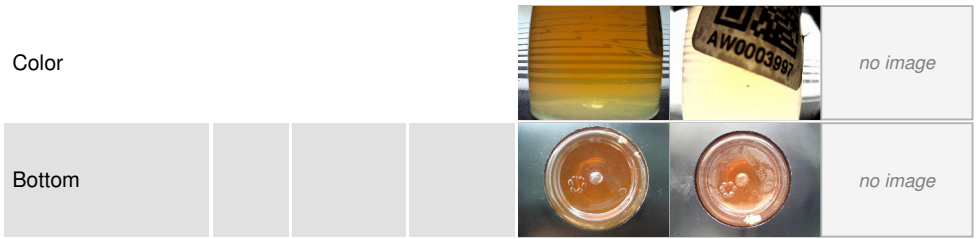
# OIL ANALYSIS REPORT



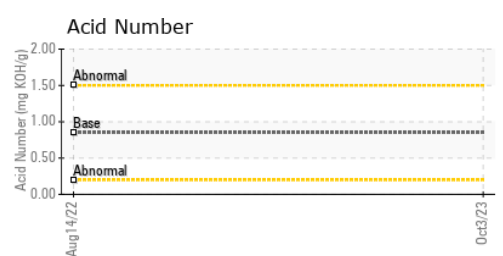
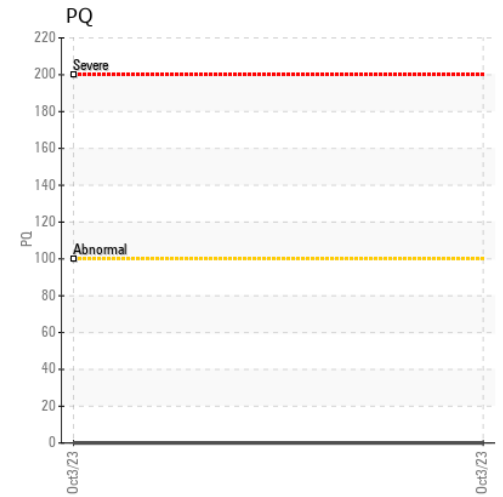
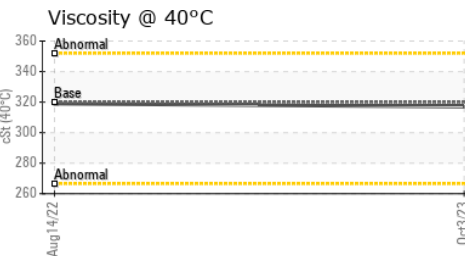
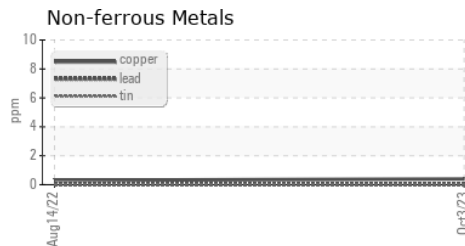
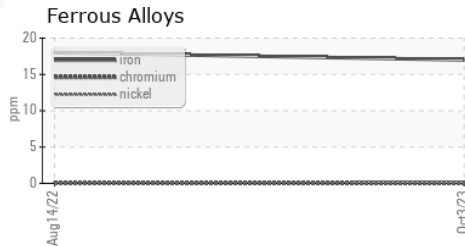
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	VLITE	LIGHT
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	320	317	319

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. : AW0004033  
 Lab Number : 02587324  
 Unique Number : 5656390  
 Test Package : IND 2 ( Additional Tests: TAN Man )

Received : 05 Oct 2023  
 Diagnosed : 06 Oct 2023  
 Diagnostician : Kevin Marson

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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