



# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Area

**ECORE LANCASTER**

Machine Id

**EQ ROTO GRINDER DRUM - ECORE LANCASTER**

Component

**Hydraulic System**

Fluid

**SHELL TELLUS S2 MX 68 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

### ▲ Wear

The copper level is abnormal. All other component wear rates are normal.

### ▲ Contamination

There is a moderate amount of visible silt present in the sample.

### Fluid Condition

The AN level is acceptable for this fluid.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0892729</b>	---	---
Sample Date	Client Info		<b>24 May 2024</b>	---	---
Machine Age	hrs	Client Info	<b>0</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.05	<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<b>4</b>	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	---
Nickel	ppm	ASTM D5185m	>20	<b>&lt;1</b>	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---
Silver	ppm	ASTM D5185m		<b>0</b>	---
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	---
Lead	ppm	ASTM D5185m	>20	<b>5</b>	---
Copper	ppm	ASTM D5185m	>20	<b>▲ 62</b>	---
Tin	ppm	ASTM D5185m	>20	<b>6</b>	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	---
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	---
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	---
Manganese	ppm	ASTM D5185m		<b>0</b>	---
Magnesium	ppm	ASTM D5185m		<b>13</b>	---
Calcium	ppm	ASTM D5185m		<b>27</b>	---
Phosphorus	ppm	ASTM D5185m		<b>189</b>	---
Zinc	ppm	ASTM D5185m		<b>290</b>	---
Sulfur	ppm	ASTM D5185m		<b>1839</b>	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<b>1</b>	---
Sodium	ppm	ASTM D5185m		<b>2</b>	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	---

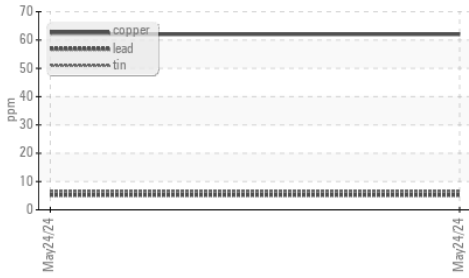
## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.76</b>	---



# OIL ANALYSIS REPORT

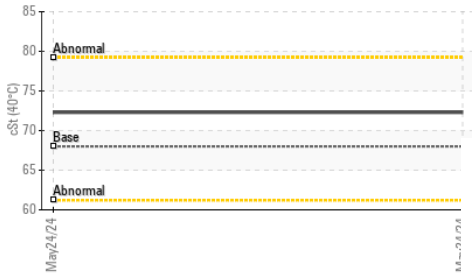
### ▲ Non-ferrous Metals



### Acid Number





### Viscosity @ 40°C



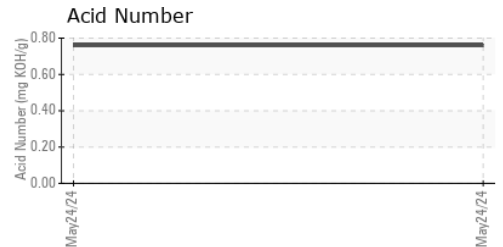
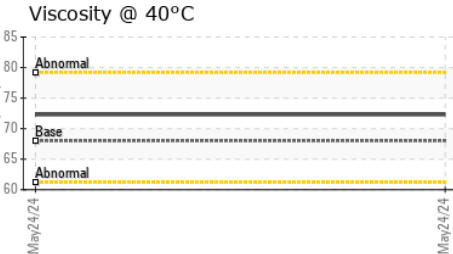
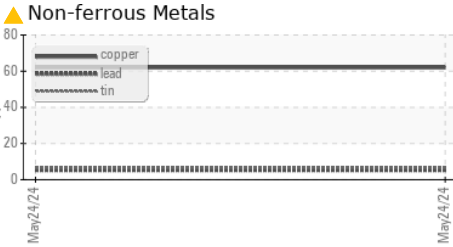
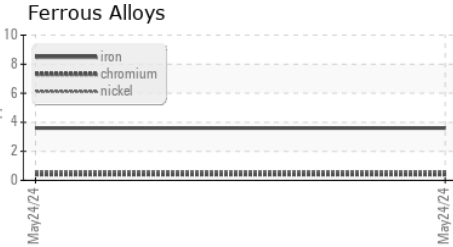
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	---
Silt	scalar	*Visual	NONE	▲ <b>MODER</b>	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---
Emulsified Water	scalar	*Visual	>0.05	<b>NEG</b>	---
Free Water	scalar	*Visual		<b>NEG</b>	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68.0	<b>72.3</b>	---

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

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0892729  
**Lab Number** : 06195395  
**Unique Number** : 11057518  
**Test Package** : IND 2

**Received** : 30 May 2024  
**Tested** : 31 May 2024  
**Diagnosed** : 31 May 2024 - Angela Borella

**MOTOR TECHNOLOGY INC**  
 515 WILLOW SPRINGS LN  
 YORK, PA  
 US 17406

Contact: Bill Trimmer  
 btrimmer@motortechnologyinc.com  
 T: (717)266-4045

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)