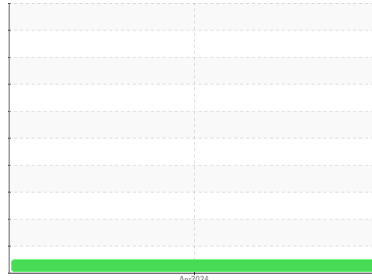




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**Astro Shapes - A09300**  
 Machine Id  
**M1 3390**  
 Component  
**Hydraulic System**  
 Fluid  
**{not provided} (--- GAL)**

## DIAGNOSIS

**Recommendation**  
 We certify that this oil is clean, that the additives are at acceptable levels, and that it is suitable for use.

**Wear**  
 Copper and iron ppm levels are noted.

**Fluid Condition**  
 Sodium ppm levels are notably high.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Batch #	Client Info		<b>Mobile</b>	---	---
Department	Client Info		<b>Production</b>	---	---
Sample From	Client Info		<b>Machine</b>	---	---
Production Stage	Client Info		<b>Final</b>	---	---
Sent to WC	Client Info		<b>04/10/2024</b>	---	---
Sample Number	Client Info		<b>E30001822</b>	---	---
Sample Date	Client Info		<b>08 Apr 2024</b>	---	---
Machine Age	kms	Client Info	<b>0</b>	---	---
Oil Age	kms	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>NORMAL</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >20	<b>43</b>	---	---
Chromium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m) >20	<b>0</b>	---	---
Titanium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m) >20	<b>10</b>	---	---
Lead	ppm	ASTM D5185(m) >20	<b>5</b>	---	---
Copper	ppm	ASTM D5185(m) >20	<b>100</b>	---	---
Tin	ppm	ASTM D5185(m) >20	<b>2</b>	---	---
Antimony	ppm	ASTM D5185(m)	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	---	---

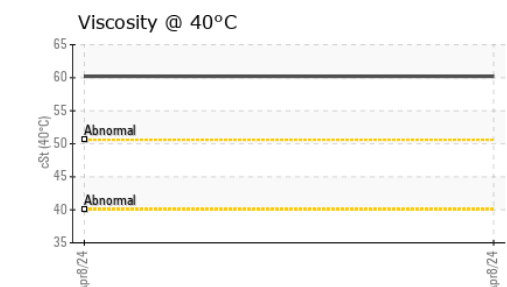
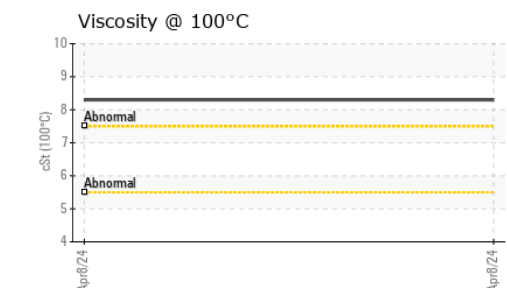
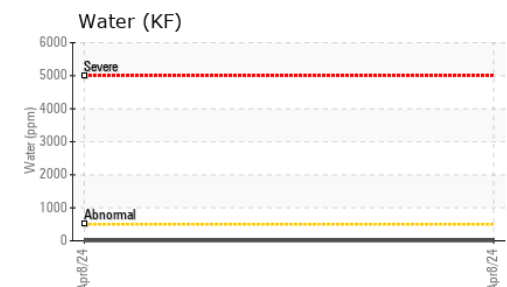
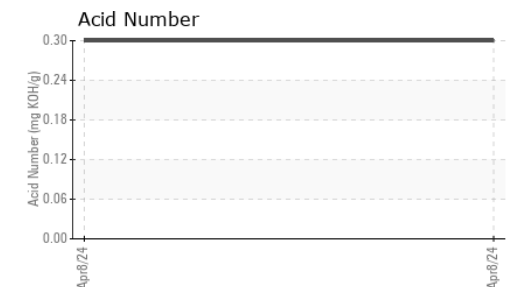
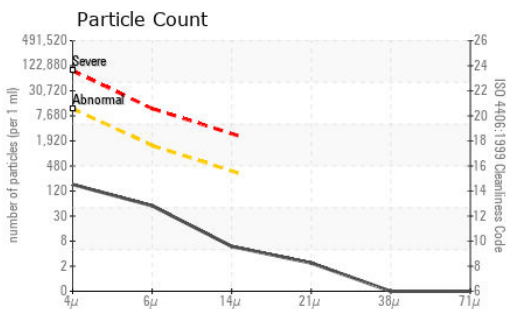
## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Barium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	<b>0</b>	---	---
Manganese	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185(m)	<b>10</b>	---	---
Calcium	ppm	ASTM D5185(m)	<b>26</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	<b>397</b>	---	---
Zinc	ppm	ASTM D5185(m)	<b>241</b>	---	---
Sulfur	ppm	ASTM D5185(m)	<b>2496</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	<b>&lt;1</b>	---	---
Sodium	ppm	ASTM D5185(m)	<b>12</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	---	---
Water	%	ASTM D6304* >0.05	<b>0.001</b>	---	---
ppm Water	ppm	ASTM D6304* >500	<b>7</b>	---	---

# OIL ANALYSIS REPORT



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	<b>152</b>	---	---
Particles >6µm	ASTM D7647	>1300	<b>47</b>	---	---
Particles >14µm	ASTM D7647	>320	<b>5</b>	---	---
Particles >21µm	ASTM D7647	>80	<b>2</b>	---	---
Particles >38µm	ASTM D7647	>20	<b>0</b>	---	---
Particles >71µm	ASTM D7647	>4	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>20/17/15	<b>14/13/10</b>	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	<b>0.30</b>	---	---

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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	<b>60.2</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	<b>8.3</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	<b>107</b>	---	---

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



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : E30001822  
**Lab Number** : **02628504**  
**Unique Number** : 5761636  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, VI )

**Environmental 360 Solutions Ltd.**  
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 Cobourg, ON  
 CA K9A 5H5  
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 T: (800)263-3939  
 F: (905)373-4950

To discuss this sample report, contact Customer Service at 1-905-372-2251.  
 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.