



# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area  
**Northern Cables - N02200**  
 Machine Id  
**A2312085**  
 Component  
**Unknown Component**  
 Fluid  
**SHELL VITREA 22 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

This is a baseline read-out on the submitted sample.

### Wear

{not applicable}

### ▲ Contamination

Oil Cleanliness are abnormally high. Particles >14µm are abnormally high. Particles >4µm are abnormally high. Particles >6µm are abnormally high. Particles >21µm are abnormally high.

### Fluid Condition

{not applicable}

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Batch #	Client Info		<b>2023 12 0230</b>	---	---
Department	Client Info		<b>Production</b>	---	---
Sample From	Client Info		<b>Machine</b>	---	---
Production Stage	Client Info		<b>Initial</b>	---	---
Sent to WC	Client Info		<b>12/18/2023</b>	---	---
Sample Number	Client Info		<b>E30001007</b>	---	---
Sample Date	Client Info		<b>18 Dec 2023</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>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	<b>2</b>	---	---
Chromium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Nickel	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	<b>8</b>	---	---
Lead	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185(m)	<b>1</b>	---	---
Tin	ppm	ASTM D5185(m)	<b>0</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>	---	---

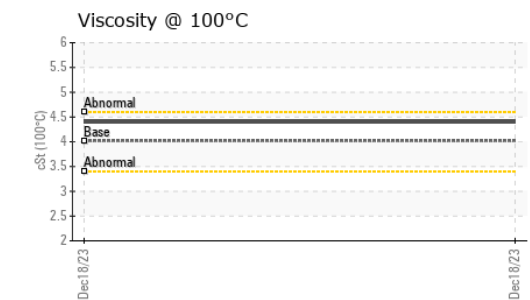
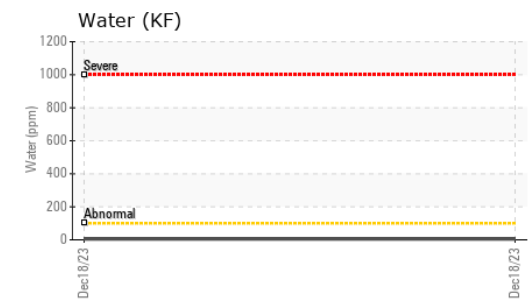
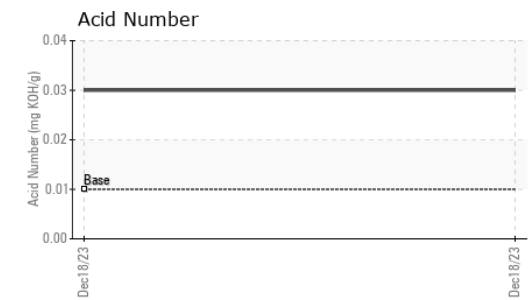
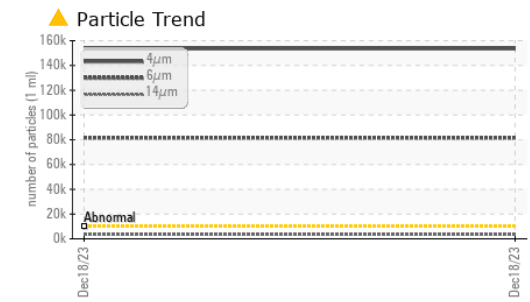
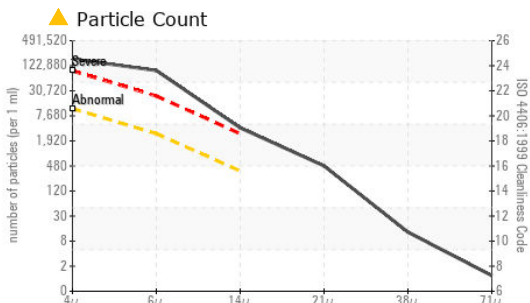
## ADDITIVES

	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>0</b>	---	---
Magnesium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Calcium	ppm	ASTM D5185(m)	<b>1</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	<b>4</b>	---	---
Zinc	ppm	ASTM D5185(m)	<b>2</b>	---	---
Sulfur	ppm	ASTM D5185(m)	<b>3</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<b>6</b>	---	---
Sodium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	---	---
Water	%	ASTM D6304*	<b>0.001</b>	---	---
ppm Water	ppm	ASTM D6304*	<b>5</b>	---	---

# OIL ANALYSIS REPORT



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : E30001007 **Received** : 20 Dec 2023  
**Lab Number** : 02604423 **Diagnosed** : 28 Dec 2023  
**Unique Number** : 5697508 **Diagnostician** : Tatiana Sorkina  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, PrtCount, TAN Man, VI )

**Environmental 360 Solutions Ltd.**  
 640 Victoria Street  
 Cobourg, ON  
 CA K9A 5H5  
 Contact: Tatiana Sorkina  
 tsorkina@e360s.ca  
 T: (800)263-3939  
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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.

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	▲ 153565	---	---
Particles >6µm	ASTM D7647	>2500	▲ 81589	---	---
Particles >14µm	ASTM D7647	>320	▲ 3449	---	---
Particles >21µm	ASTM D7647	>80	▲ 424	---	---
Particles >38µm	ASTM D7647	>20	11	---	---
Particles >71µm	ASTM D7647	>4	1	---	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ 24/24/19	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974* .01	0.03	---	---

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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m) 20.3	21.5	---	---
Visc @ 100°C	cSt	ASTM D7279(m) 4.02	4.4	---	---
Viscosity Index (VI)	Scale	ASTM D2270* 95	114	---	---

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