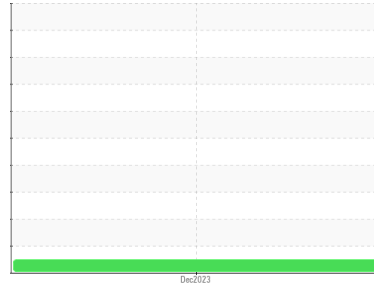




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**York University - Y00300**  
 Machine Id  
**A2312030**

Component  
**Unknown Component**  
 Fluid  
**PETRO CANADA TURBOFLO XL32 (--- GAL)**

## DIAGNOSIS

### Recommendation

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

### Wear

{not applicable}

### Contamination

{not applicable}

### Fluid Condition

{not applicable}

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Batch #	Client Info		<b>Mobile</b>	---	---
Machine ID	Client Info		<b>A2312030</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>12/06/2023</b>	---	---
Sample Number	Client Info		<b>E30000883</b>	---	---
Sample Date	Client Info		<b>04 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>NORMAL</b>	---	---

## WEAR METALS

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

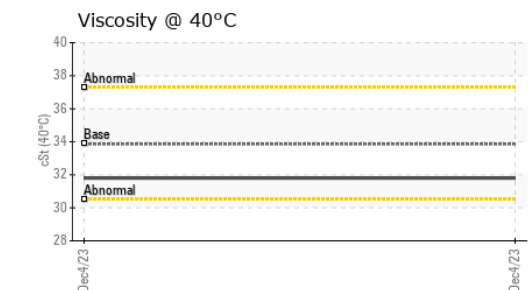
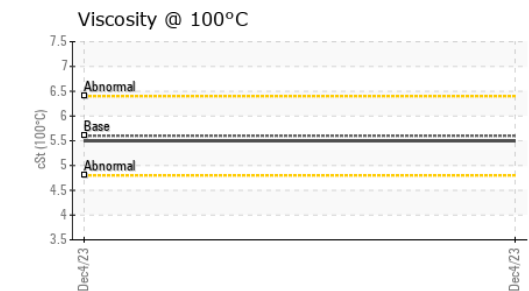
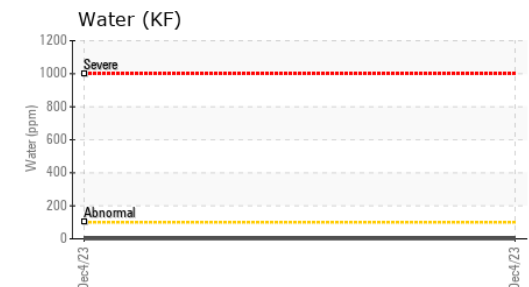
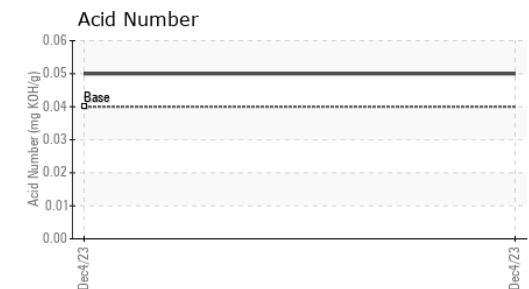
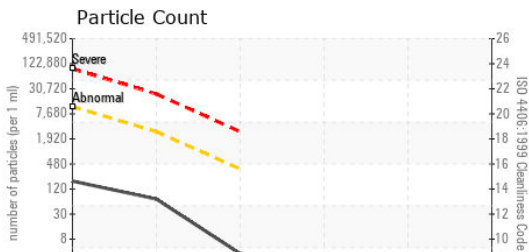
## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<b>0</b>	<b>&lt;1</b>	---
Barium	ppm	ASTM D5185(m)	<b>0</b>	<b>&lt;1</b>	---
Molybdenum	ppm	ASTM D5185(m)	<b>0</b>	<b>0</b>	---
Manganese	ppm	ASTM D5185(m)	<b>0</b>	<b>0</b>	---
Magnesium	ppm	ASTM D5185(m)	<b>0</b>	<b>0</b>	---
Calcium	ppm	ASTM D5185(m)	<b>0</b>	<b>&lt;1</b>	---
Phosphorus	ppm	ASTM D5185(m)	<b>5</b>	<b>3</b>	---
Zinc	ppm	ASTM D5185(m)	<b>0</b>	<b>1</b>	---
Sulfur	ppm	ASTM D5185(m)	<b>750</b>	<b>523</b>	---
Lithium	ppm	ASTM D5185(m)	<b>0</b>	<b>&lt;1</b>	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<b>2</b>	---	---
Sodium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Potassium	ppm	ASTM D5185(m)	<b>&gt;20</b>	<b>0</b>	---
Water	%	ASTM D6304*	<b>0.001</b>	---	---
ppm Water	ppm	ASTM D6304*	<b>1</b>	---	---

# OIL ANALYSIS REPORT



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	<b>164</b>	---	---
Particles >6µm	ASTM D7647	>2500	<b>61</b>	---	---
Particles >14µm	ASTM D7647	>320	<b>3</b>	---	---
Particles >21µm	ASTM D7647	>80	<b>1</b>	---	---
Particles >38µm	ASTM D7647	>20	<b>0</b>	---	---
Particles >71µm	ASTM D7647	>4	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	<b>15/13/9</b>	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.04	<b>0.05</b>	---	---

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>NONE</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*		<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)	33.86	<b>31.8</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	5.60	<b>5.5</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	101	<b>109</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.** : E30000883  
**Lab Number** : **02601847**  
**Unique Number** : 5694932  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, PrtCount, VI )

**Environmental 360 Solutions Ltd.**  
 640 Victoria Street  
 Cobourg, ON  
 CA K9A 5H5  
 Contact: Tatiana Sorkina  
 tsorkina@e360s.ca  
 T: (800)263-3939  
 F: (905)373-4950

Received : 08 Dec 2023  
 Diagnosed : 12 Dec 2023  
 Diagnostician : Tatiana Sorkina  
 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.