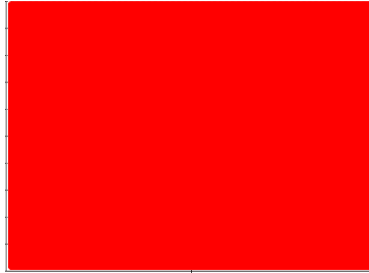




# OIL ANALYSIS REPORT

Sample Rating Trend

DIRT



Machine Id  
**05926135**

Component  
**Turbine**

Fluid  
**PHILLIPS 66 TURBINE OIL ISO 46 (--- GAL)**

## DIAGNOSIS

### Recommendation

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

### Wear

{not applicable}

### Contamination

Silicon ppm levels are severely high. Separability (Emulsion) % is severely high. Separability (Oil) % is severely low. Separability (Water) % is severely low.

### Fluid Condition

Separability % is severely low.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PP</b>	---	---
Sample Date	Client Info		<b>08 Aug 2023</b>	---	---
Machine Age	hrs	Client Info	<b>36955</b>	---	---
Oil Age	hrs	Client Info	<b>36955</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >15	<b>0</b>	---	---
Chromium	ppm	ASTM D5185(m) >4	<b>0</b>	---	---
Nickel	ppm	ASTM D5185(m) >2	<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) >10	<b>0</b>	---	---
Lead	ppm	ASTM D5185(m)	<b>0</b>	---	---
Copper	ppm	ASTM D5185(m) >5	<b>0</b>	---	---
Tin	ppm	ASTM D5185(m) >5	<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>2</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	<b>38</b>	---	---
Zinc	ppm	ASTM D5185(m)	<b>2</b>	---	---
Sulfur	ppm	ASTM D5185(m)	<b>114</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	<b>61</b>	---	---
Sodium	ppm	ASTM D5185(m)	<b>2</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	---	---

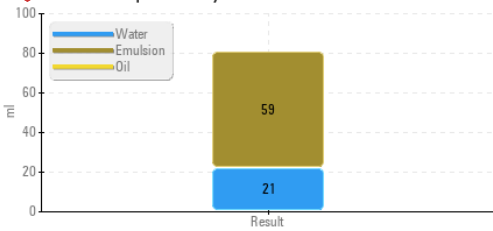
## VISUAL

	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* >0.03	<b>NEG</b>	---	---
Free Water	scalar	Visual*	<b>NEG</b>	---	---



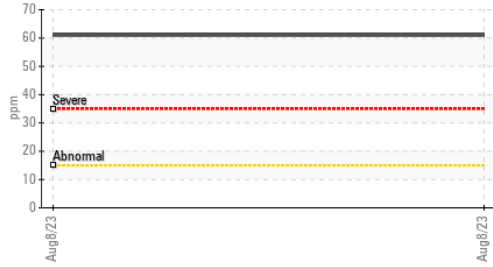
# OIL ANALYSIS REPORT

### Water Separability



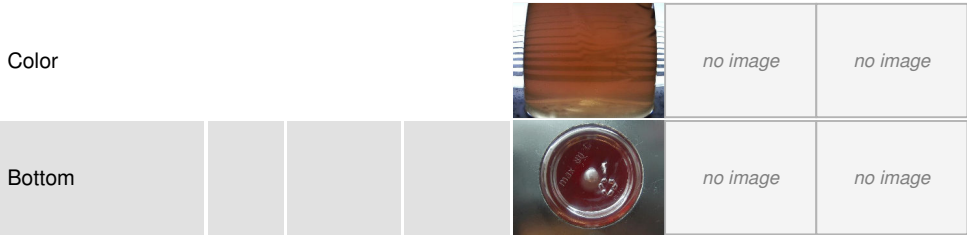
FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	46.0	<b>46.8</b>	---	---
Separability	oil/h2o/em	ASTM D1401*	//	<b>0/21/59 (30)</b>	---	---
Air Release Time	min	ASTM D3427*	3.0	<b>8.20</b>	---	---
Foam Tendency	I/II/III	ASTM D892*		<b>30/20/40</b>	---	---
Foam Stability	I/II/III	ASTM D892*		<b>0/0/0</b>	---	---
Rust Prevention	PASS/FAIL	ASTM D665*		<b>PASS</b>	---	---
Oxidation Test (RPVOT)	minutes	ASTM D2272*	1500	<b>515</b>	---	---

### Silicon (ppm)

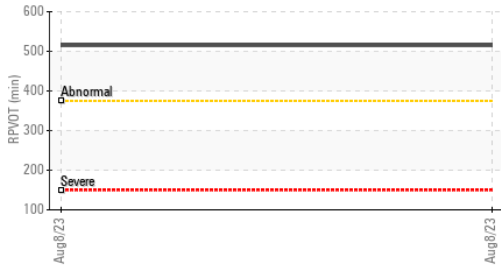


SEDIMENT	method	limit/base	current	history1	history2
Pentane Insolubles	%	ASTM D893(m)*	<b>0.042</b>	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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### RPVOT

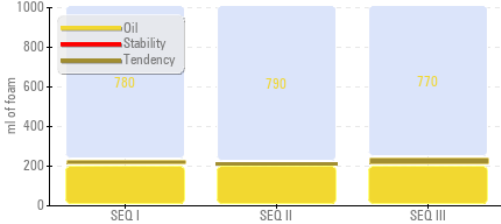


### GRAPHS

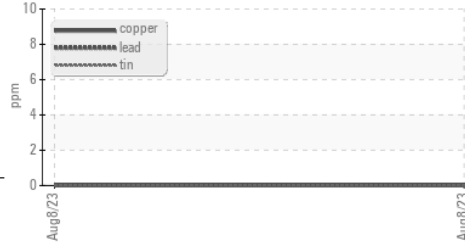
#### Ferrous Alloys



### Foaming SEQ I/II/III



#### Non-ferrous Metals



### Viscosity @ 40°C



### Viscosity @ 40°C



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory Sample No.**

**Lab Number**

**Unique Number**

**Test Package**

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

**Received** : 23 Aug 2023

**Diagnosed** : 30 Aug 2023

**Diagnostician** : Bill Quesnel

: TEST ( Additional Tests: AirRelease, Foaming, H2Oseparability, ICP, KV40, PntInsol, RPVOT, RustPrev,

**WEARCHECK USA**

501 Madison Ave

Cary, NC

US 27513

Contact: JEFF AIKEN

jaiken@wearcheckusa.com

T:

F: (919)379-4050

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.