

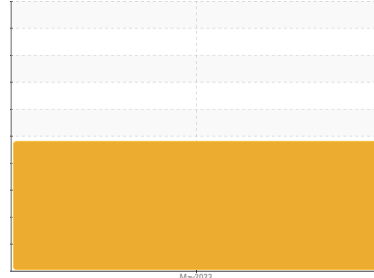


# PROBLEM SUMMARY

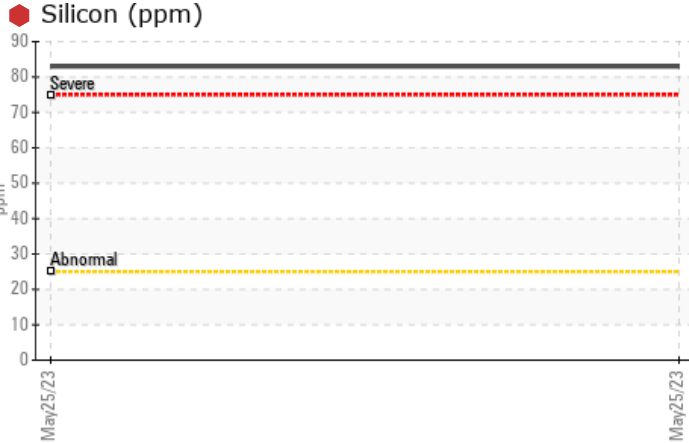
Sample Rating Trend

DIRT

Area  
**TECHTROL GOLD**  
Machine Id  
**INGERSOLL RAND UNIT 6 POWER HOUSE - TVA (S/N 16054)**  
Component  
**Compressor**



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Silicon	ppm	ASTM D5185m	>25	83	---	---

Customer Id: UCPFMCHA  
Sample No.: UCH05927353  
Lab Number: 05927353  
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Jonathan Hester +1 919-379-4092 x4092  
[jhester@wearcheckusa.com](mailto:jhester@wearcheckusa.com)

To change component or sample information:  
Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS



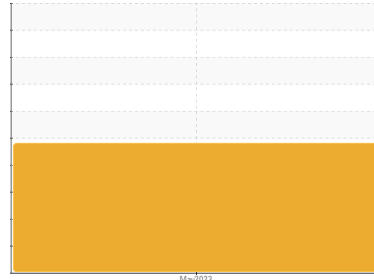
# OIL ANALYSIS REPORT

Sample Rating Trend

DIRT



Area  
**TECHTROL GOLD**  
 Machine Id  
**INGERSOLL RAND UNIT 6 POWER HOUSE - TVA (S/N 16054)**  
 Component  
**Compressor**



## DIAGNOSIS

### Recommendation

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### Contamination

Elemental level of silicon (Si) above normal.

### Fluid Condition

The AN level is acceptable for this fluid.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>UCH05927353</b>	---	---
Sample Date	Client Info		<b>25 May 2023</b>	---	---
Machine Age	hrs	Client Info	<b>46514</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>Not Chngd</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>0</b>	---
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	---
Nickel	ppm	ASTM D5185m		<b>0</b>	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---
Silver	ppm	ASTM D5185m		<b>0</b>	---
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	---
Lead	ppm	ASTM D5185m	>25	<b>0</b>	---
Copper	ppm	ASTM D5185m	>50	<b>0</b>	---
Tin	ppm	ASTM D5185m	>15	<b>0</b>	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	---
Barium	ppm	ASTM D5185m		<b>3</b>	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	---
Magnesium	ppm	ASTM D5185m		<b>1</b>	---
Calcium	ppm	ASTM D5185m		<b>&lt;1</b>	---
Phosphorus	ppm	ASTM D5185m		<b>7</b>	---
Zinc	ppm	ASTM D5185m		<b>0</b>	---
Sulfur	ppm	ASTM D5185m		<b>53</b>	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>83</b>	---
Sodium	ppm	ASTM D5185m		<b>0</b>	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	---

## FLUID DEGRADATION

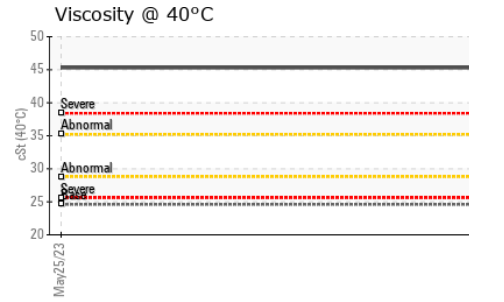
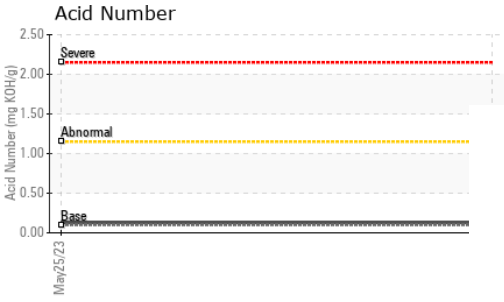
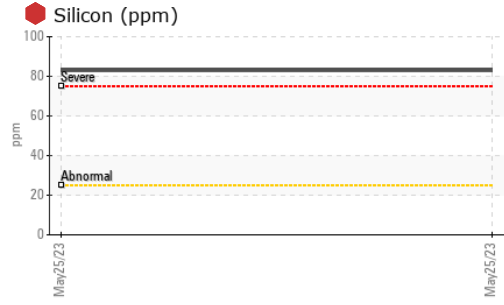
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.10	<b>0.13</b>	---

## 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	>0.1	<b>NEG</b>	---
Free Water	scalar	*Visual		<b>NEG</b>	---



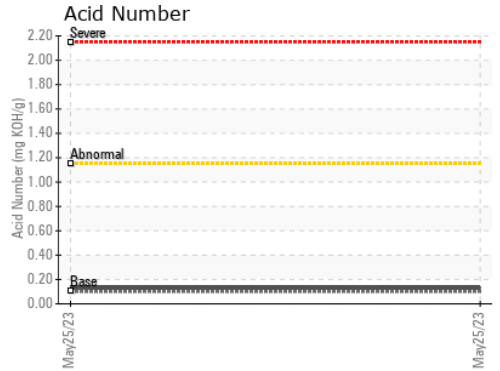
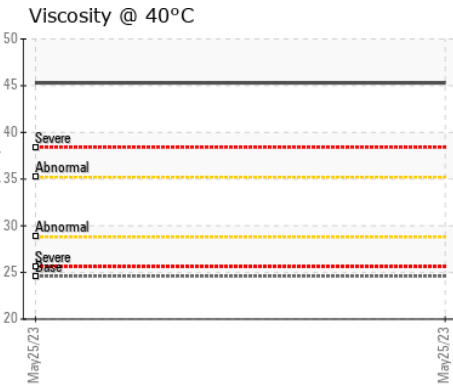
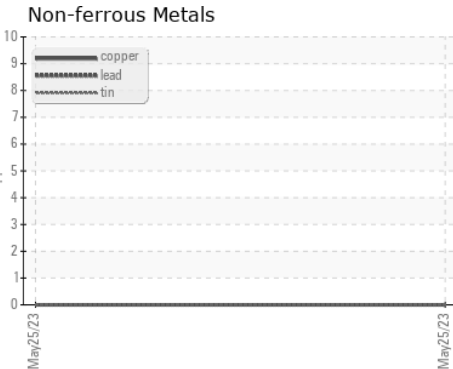
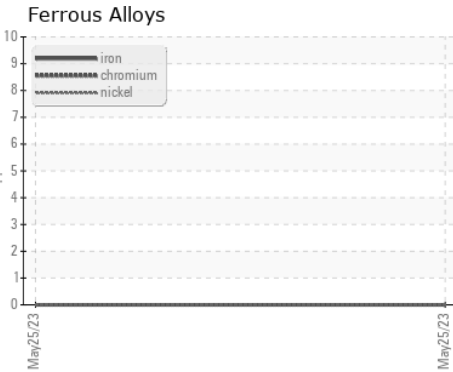
# OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	24.6	45.3	---

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

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UCH05927353 **Received** : 17 Aug 2023  
**Lab Number** : 05927353 **Diagnosed** : 21 Aug 2023  
**Unique Number** : 10607300 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2

**PFME - COMPRESSED AIR AND GAS SYSTEMS SPECIALISTS**  
 1615 CROSS BEAM DR  
 CHARLOTTE, NC  
 US 28217  
 Contact: SCOTT MITCHELL  
 SMITCHELL@PFM-ENG.COM

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)

T:  
F: