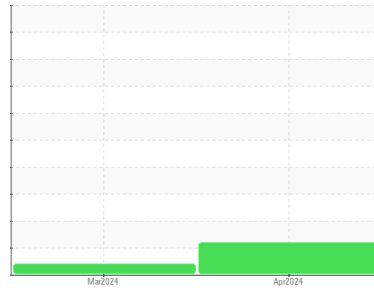


# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**INGERSOLL RAND F2 (S/N EE3401U12086)**  
 Component  
**Compressor**  
 Fluid  
**NCS HT EXTREME OIL (48 GAL)**

## DIAGNOSIS

### Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>TO60002440</b>	TO60002431	---
Sample Date	Client Info		<b>18 Apr 2024</b>	18 Mar 2024	---
Machine Age	mths	Client Info	<b>2</b>	0	---
Oil Age	mths	Client Info	<b>0</b>	1	---
Oil Changed	Client Info		<b>Changed</b>	Not Changd	---
Sample Status			<b>ABNORMAL</b>	ABNORMAL	---

WEAR METALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>2</b>	0	---
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	---
Nickel	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >25	<b>2</b>	0	---
Lead	ppm	ASTM D5185m >25	<b>2</b>	0	---
Copper	ppm	ASTM D5185m >50	<b>5</b>	0	---
Tin	ppm	ASTM D5185m >15	<b>6</b>	8	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---

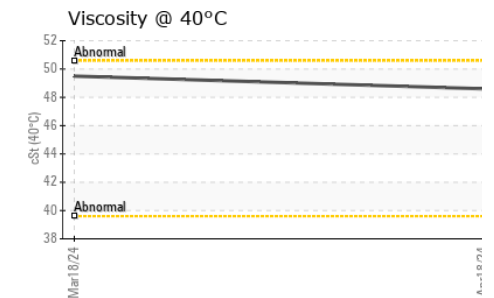
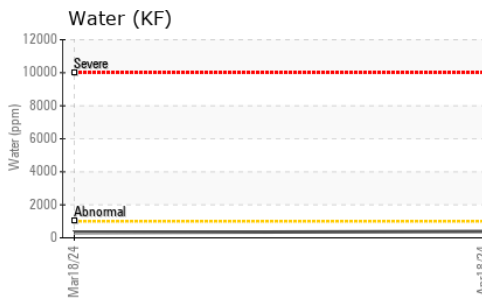
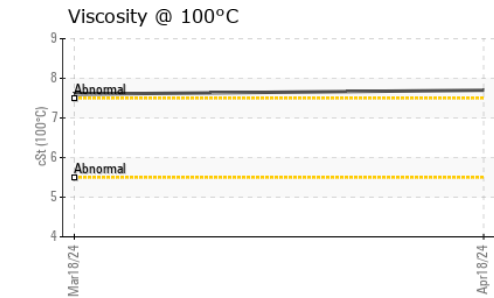
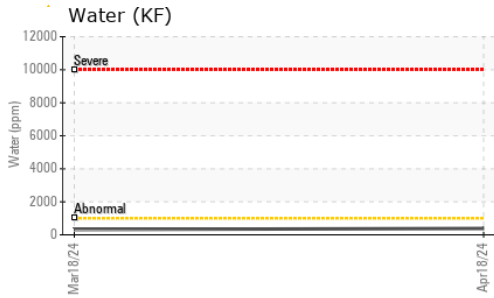
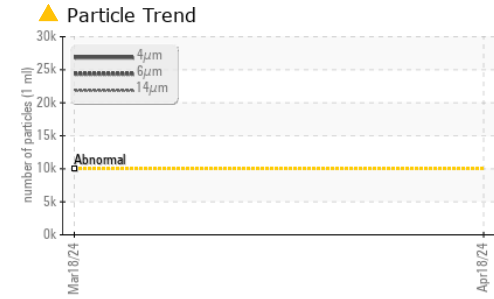
ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	---
Barium	ppm	ASTM D5185m	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Calcium	ppm	ASTM D5185m	<b>6</b>	84	---
Phosphorus	ppm	ASTM D5185m	<b>22</b>	27	---
Zinc	ppm	ASTM D5185m	<b>6</b>	10	---
Sulfur	ppm	ASTM D5185m	<b>0</b>	83	---

CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>4</b>	17	---
Sodium	ppm	ASTM D5185m	<b>0</b>	0	---
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	---
Water	%	ASTM D6304 >0.1	<b>0.038</b>	0.031	---
ppm Water	ppm	ASTM D6304 >1000	<b>388</b>	320	---

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	<b>▲ 29693</b>	---	---
Particles >6µm	ASTM D7647	>2500	<b>● 4443</b>	---	---
Particles >14µm	ASTM D7647	>320	<b>209</b>	---	---
Particles >21µm	ASTM D7647	>80	<b>39</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>▲ 22/19/15</b>	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.55</b>	0.46	---

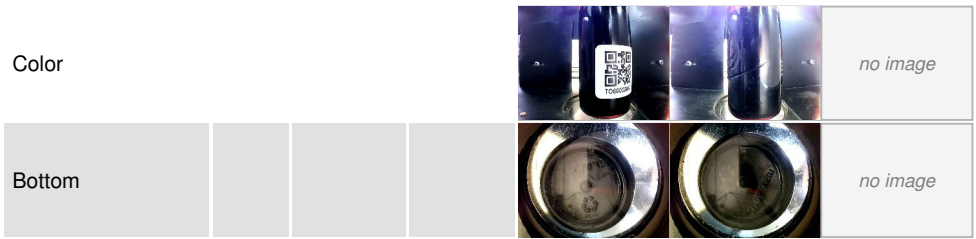
# OIL ANALYSIS REPORT



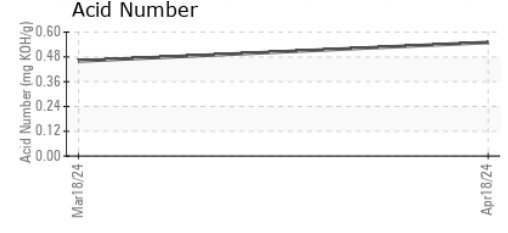
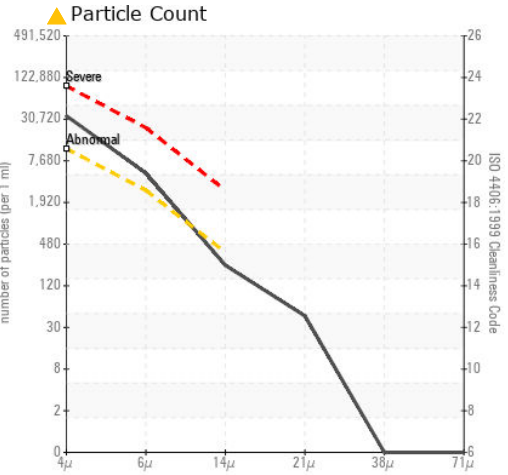
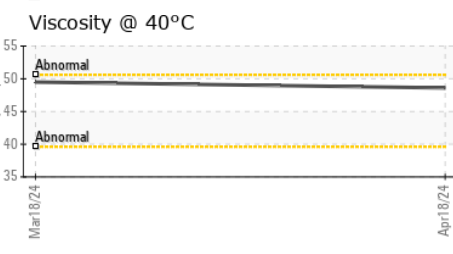
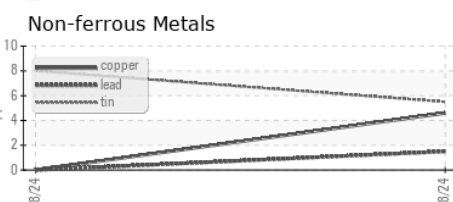
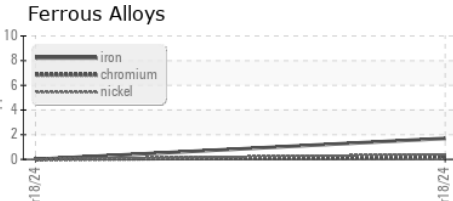
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	---
Free Water	scalar	*Visual		<b>NEG</b>	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	<b>48.6</b>	49.5	---
Visc @ 100°C	cSt	ASTM D445	<b>7.7</b>	7.6	---
Viscosity Index (VI)	Scale	ASTM D2270	<b>124</b>	118	---

## SAMPLE IMAGES



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO60002440  
**Lab Number** : 06158454  
**Unique Number** : 10993877  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, PrtCount, VI )

**PILKINGTON**  
 13121 ROCKY FORD RD  
 LAURINBERG, NC  
 US 28352  
 Contact: ANTHONY PRATO

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: