



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**INGERSOLL RAND 2087 - AUGRA**  
 Component  
**Compressor**  
 Fluid  
**QUINCY QUINSYN (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>QUC0000831</b>	QUC0000124	TO90002010
Sample Date		Client Info		<b>14 May 2024</b>	14 Nov 2022	05 May 2022
Machine Age	hrs	Client Info		<b>9860</b>	8686	7899
Oil Age	hrs	Client Info		<b>0</b>	1000	0
Filter Age	hrs	Client Info		<b>0</b>	1000	2000
Oil Changed		Client Info		<b>N/A</b>	Changed	Not Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>2</b>	<1	<1
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	0	<1
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>1</b>	<1	<1
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

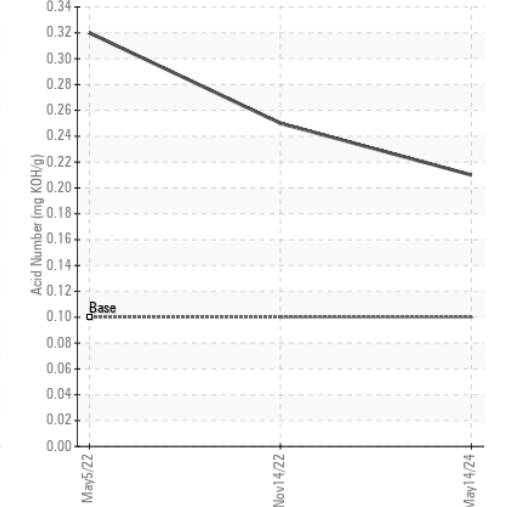
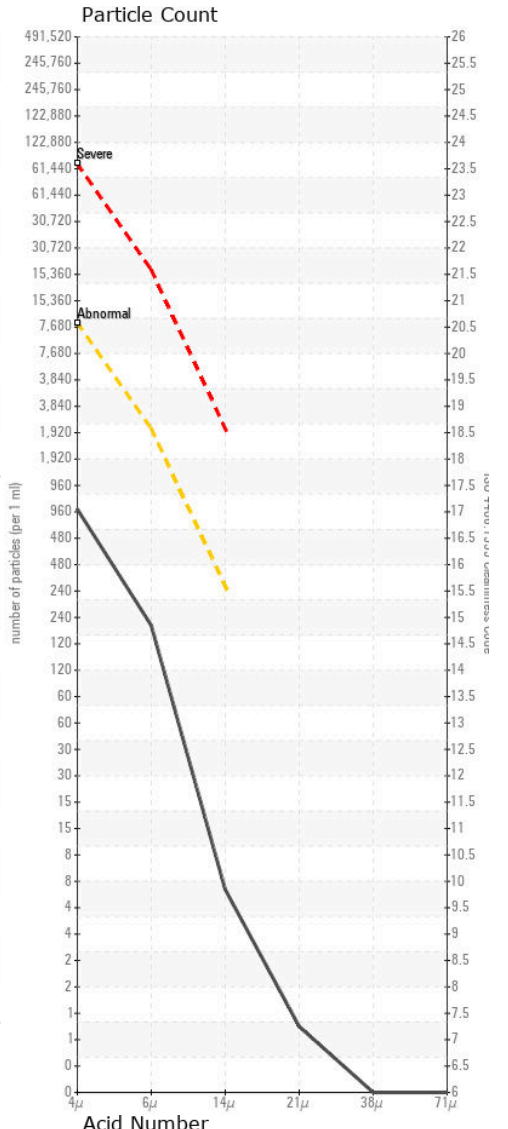
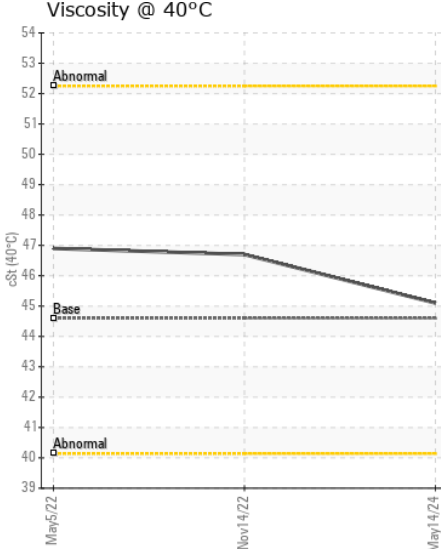
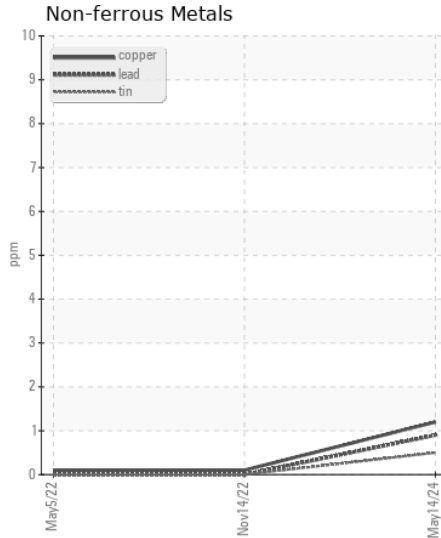
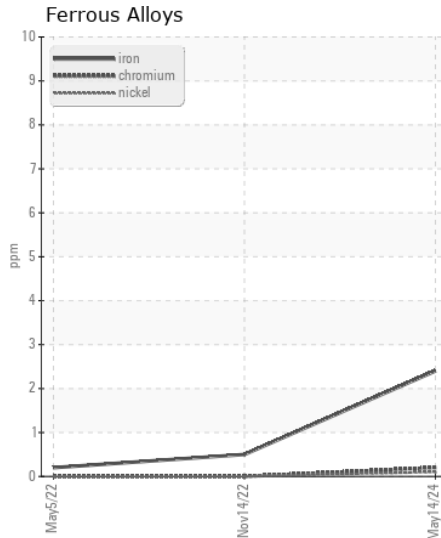
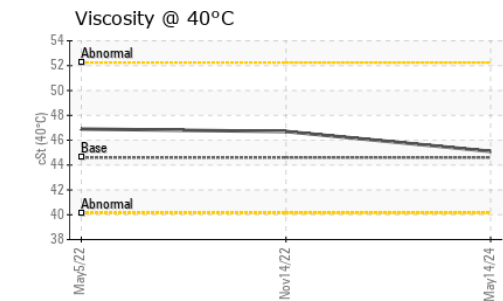
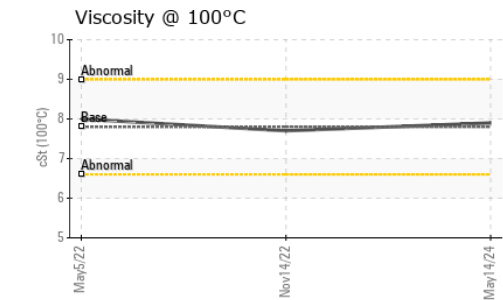
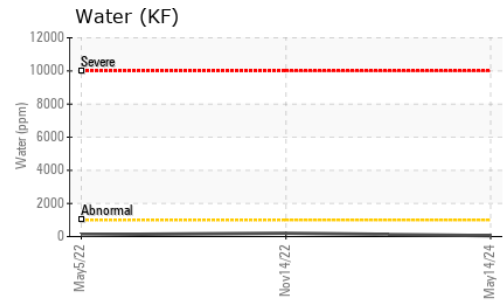
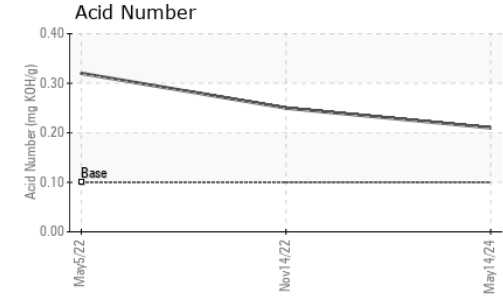
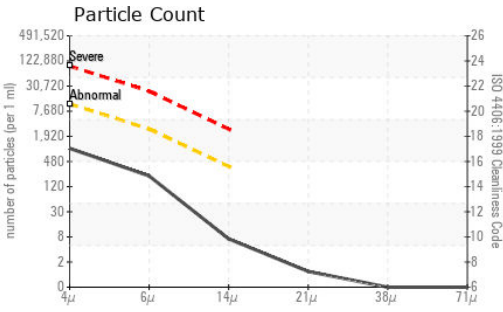
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>5</b>	9	4
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	0
Water	%	ASTM D6304	>0.1	<b>0.005</b>	0.020	0.011
ppm Water	ppm	ASTM D6304	>1000	<b>52</b>	209.7	112.3
Particles >4µm		ASTM D7647	>10000	<b>871</b>	8119	▲ 61155
Particles >6µm		ASTM D7647	>2500	<b>190</b>	1943	▲ 15858
Particles >14µm		ASTM D7647	>320	<b>6</b>	80	▲ 730
Particles >21µm		ASTM D7647	>80	<b>1</b>	19	▲ 237
Particles >38µm		ASTM D7647	>20	<b>0</b>	0	10
Particles >71µm		ASTM D7647	>4	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>17/15/10</b>	20/18/13	▲ 23/21/17
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m		<b>2</b>	3	4
Boron	ppm	ASTM D5185m		<b>0</b>	0	<1
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Calcium	ppm	ASTM D5185m		<b>0</b>	0	1
Phosphorus	ppm	ASTM D5185m		<b>110</b>	182	183
Zinc	ppm	ASTM D5185m		<b>147</b>	352	160
Sulfur	ppm	ASTM D5185m		<b>897</b>	768	924
Acid Number (AN)	mg KOH/g	ASTM D8045	.10	<b>0.21</b>	0.25	0.32
Visc @ 40°C	cSt	ASTM D445	44.6	<b>45.1</b>	46.7	46.9
Visc @ 100°C	cSt	ASTM D445	7.8	<b>7.9</b>	7.7	8
Viscosity Index (VI)	Scale	ASTM D2270	132	<b>146</b>	132	142



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : QUC0000831 **Received** : 14 Jun 2024  
**Lab Number** : 06210112 **Tested** : 21 Jun 2024  
**Unique Number** : 11082976 **Diagnosed** : 21 Jun 2024 - Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, PrtCount, VI )  
 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)

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