



PERFORMANCE  
UNDER  
PRESSURE

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ATTENTION

Area  
**TM 11**  
Machine Id  
**TM 11 EAST SIDE AIR FAN PUMP**  
Component  
**Pump**  
Fluid  
**ROYAL PURPLE SYNFILM 150 (--- GAL)**

**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RP0037979</b>	RP150101	RP68011
Sample Date		Client Info		<b>29 Jan 2024</b>	08 Jun 2017	21 Apr 2011
Machine Age	mths	Client Info		<b>0</b>	0	0
Oil Age	mths	Client Info		<b>0</b>	0	0
Filter Age	mths	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>SEVERE</b>	SEVERE	ABNORMAL

**WEAR**

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>90	<b>3</b>	3	3
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>7	<b>2</b>	0	<1
Lead	ppm	ASTM D5185m	>12	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m	>30	<b>2</b>	<1	<1
Tin	ppm	ASTM D5185m	>9	<b>&lt;1</b>	2	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

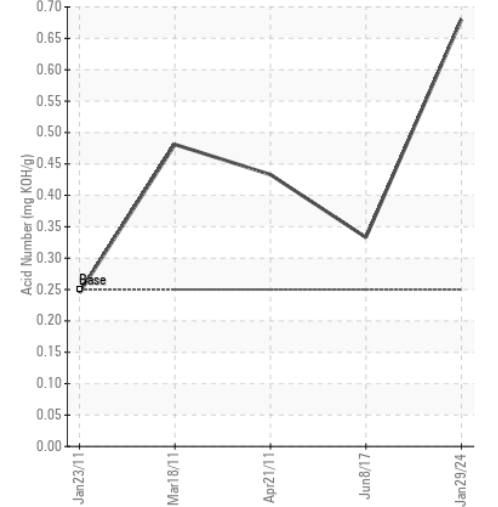
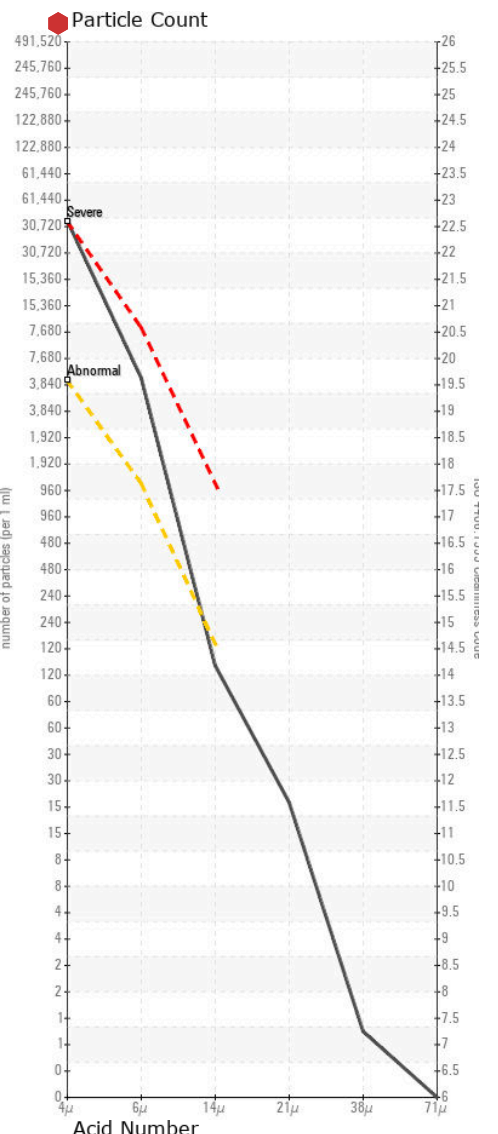
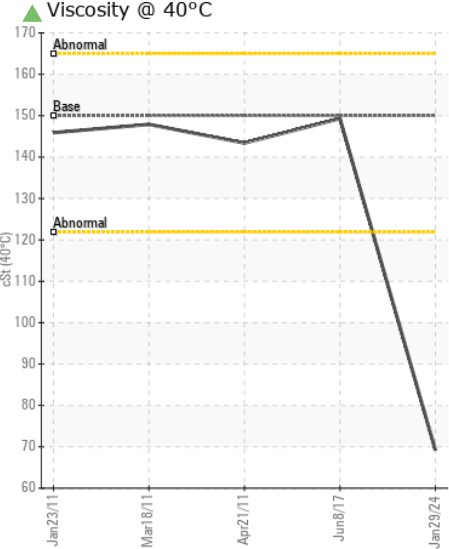
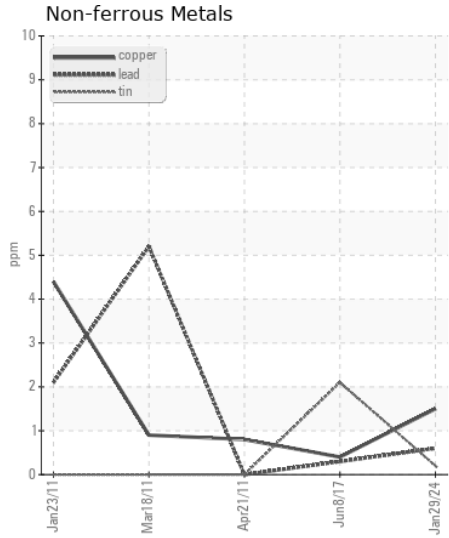
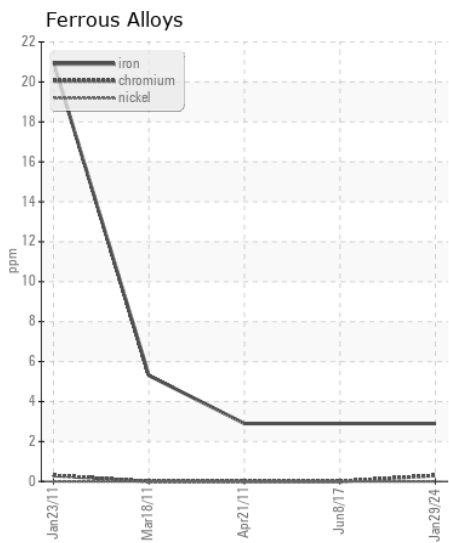
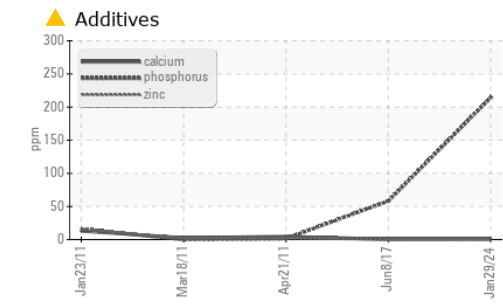
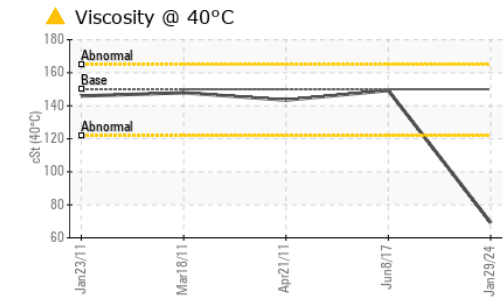
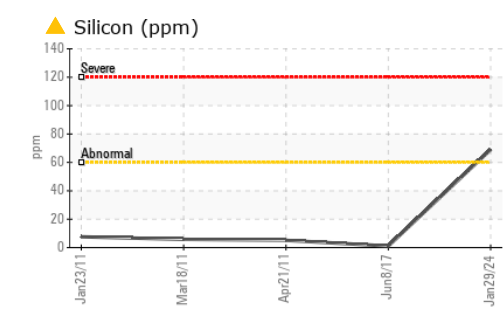
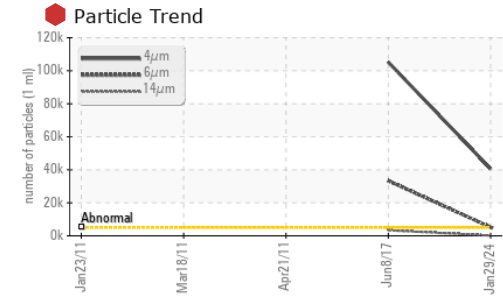
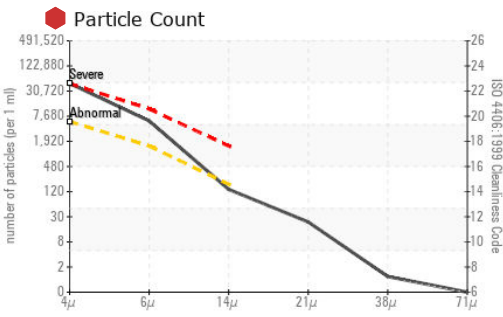
There is a high amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

Silicon	ppm	ASTM D5185m	>60	<b>▲ 69</b>	1	5
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	0
Water	%	ASTM D6304	>.1	<b>0.007</b>	0.026	▲ 0.133
ppm Water	ppm	ASTM D6304	>1000	<b>75</b>	260	▲ 1330
Particles >4µm		ASTM D7647	>5000	<b>▲ 40547</b>	▲ 105178	---
Particles >6µm		ASTM D7647	>1300	<b>▲ 5175</b>	▲ 33363	---
Particles >14µm		ASTM D7647	>160	<b>120</b>	▲ 3344	---
Particles >21µm		ASTM D7647	>40	<b>20</b>	▲ 1002	---
Particles >38µm		ASTM D7647	>10	<b>1</b>	▲ 102	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	▲ 17	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>▲ 23/20/14</b>	▲ 24/22/19	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	▲ MODER	▲ MODER
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	>.1	<b>NEG</b>	NEG	▲ 0.1%

**FLUID CONDITION**

Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within ISO 68 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		<b>0</b>	3	3
Boron	ppm	ASTM D5185m		<b>0</b>	<1	<1
Barium	ppm	ASTM D5185m		<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	90	<b>0</b>	48	72
Calcium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	5
Phosphorus	ppm	ASTM D5185m		<b>▲ 214</b>	58	1
Zinc	ppm	ASTM D5185m		<b>0</b>	0	2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.25	<b>0.68</b>	0.333	0.433
Visc @ 40°C	cSt	ASTM D445	150	<b>▲ 69.2</b>	149.3	143.4



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0037979 **Received** : 30 Jan 2024  
**Lab Number** : 06074727 **Diagnosed** : 01 Feb 2024  
**Unique Number** : 10856818 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: PQ, PrtCount )

**Kimberly-Clark - Mobile - TM 11**  
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Certificate L2367  
 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)