

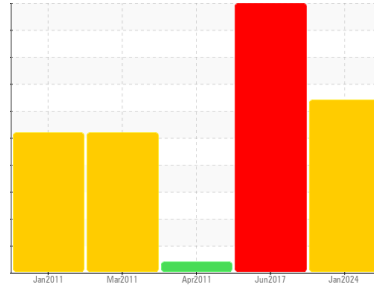
PROBLEM SUMMARY

Sample Rating Trend

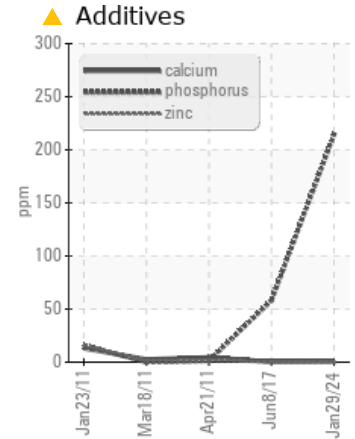
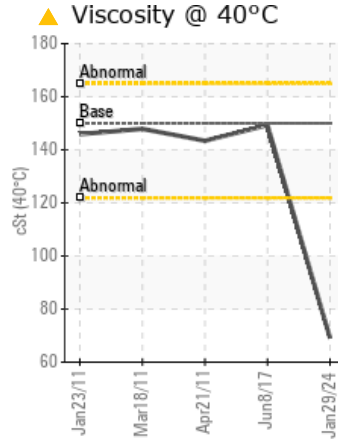
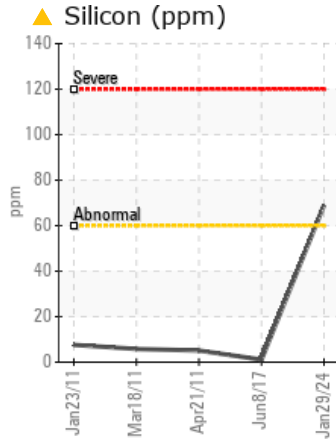
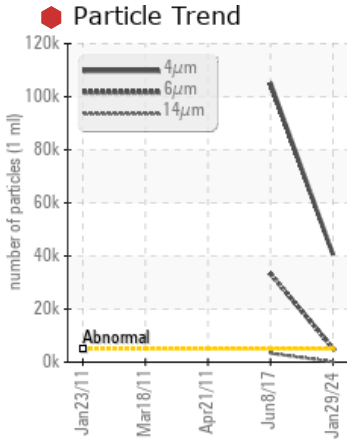
ISO



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



COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	SEVERE	ABNORMAL
Silicon	ppm	ASTM D5185m	>60	▲ 69	1	5
Particles >4µm		ASTM D7647	>5000	● 40547	105178	---
Particles >6µm		ASTM D7647	>1300	● 5175	33363	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	● 23/20/14	24/22/19	---

Customer Id: KIMMOBTM11
Sample No.: RP0037979
Lab Number: 06074727
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

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

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

08 Jun 2017 Diag: Doug Bogart

ISO



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



21 Apr 2011 Diag: Jonathan Hester

VIS DEBRIS



We were unable to perform a particle count due to a high concentration of particles present in this sample. Aside from particulates, the condition of the oil is suitable for further service. However, we recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a trace of moisture present in the oil. Moderate concentration of visible dirt/debris present in the oil. The condition of oil is suitable for further service.

view report



18 Mar 2011 Diag: Jonathan Hester

WATER



Aside from particulates, the condition of the oil is suitable for further service. However, we recommend you service the filters on this component. We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. All component wear rates are normal. Free water present. There is a trace of moisture present in the oil. Moderate concentration of visible dirt/debris present in the oil. The condition of oil is suitable for further service.

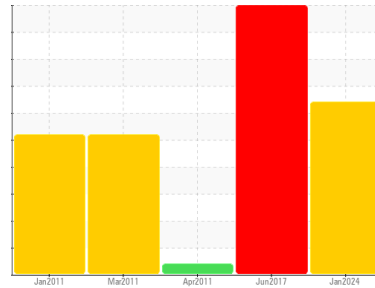
view report





OIL ANALYSIS REPORT

Sample Rating Trend



ISO



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

DIAGNOSIS

Recommendation

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. Elemental level of silicon (Si) above normal indicating ingress of seal material.

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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		RP0037979	RP150101	RP68011
Sample Date	Client Info		29 Jan 2024	08 Jun 2017	21 Apr 2011
Machine Age	mths	Client Info	0	0	0
Oil Age	mths	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			SEVERE	SEVERE	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		14	---	---
Iron	ppm	ASTM D5185m >90	3	3	3
Chromium	ppm	ASTM D5185m >5	<1	0	0
Nickel	ppm	ASTM D5185m >5	0	0	0
Titanium	ppm	ASTM D5185m >3	<1	0	0
Silver	ppm	ASTM D5185m >3	0	0	<1
Aluminum	ppm	ASTM D5185m >7	2	0	<1
Lead	ppm	ASTM D5185m >12	<1	<1	0
Copper	ppm	ASTM D5185m >30	2	<1	<1
Tin	ppm	ASTM D5185m >9	<1	2	0
Antimony	ppm	ASTM D5185m	---	0	<1
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	<1
Barium	ppm	ASTM D5185m	0	0	2
Molybdenum	ppm	ASTM D5185m	<1	<1	<1
Manganese	ppm	ASTM D5185m	0	<1	<1
Magnesium	ppm	ASTM D5185m 90	0	48	72
Calcium	ppm	ASTM D5185m	<1	<1	5
Phosphorus	ppm	ASTM D5185m	▲ 214	58	1
Zinc	ppm	ASTM D5185m	0	0	2

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >60	▲ 69	1	5
Sodium	ppm	ASTM D5185m	0	3	3
Potassium	ppm	ASTM D5185m >20	2	2	0
Water	%	ASTM D6304 >.1	0.007	0.026	▲ 0.133
ppm Water	ppm	ASTM D6304 >1000	75	260	▲ 1330

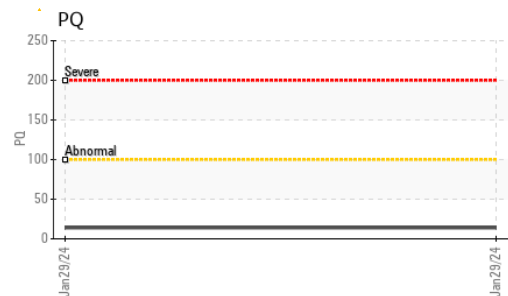
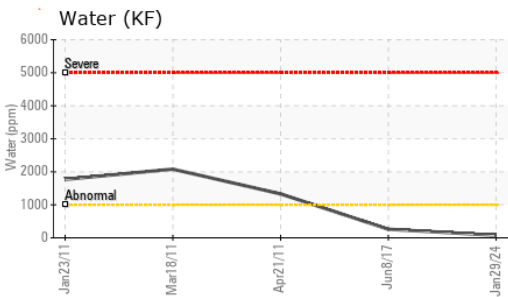
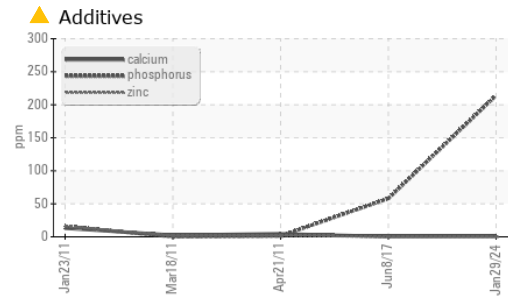
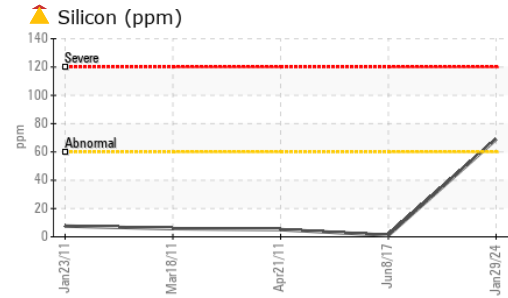
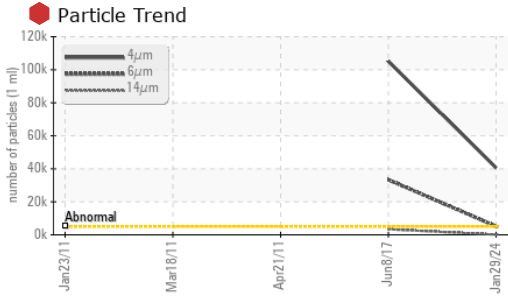
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	40547	105178	---
Particles >6µm	ASTM D7647	>1300	5175	33363	---
Particles >14µm	ASTM D7647	>160	120	3344	---
Particles >21µm	ASTM D7647	>40	20	1002	---
Particles >38µm	ASTM D7647	>10	1	102	---
Particles >71µm	ASTM D7647	>3	0	17	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	23/20/14	24/22/19	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.25	0.68	0.333	0.433

OIL ANALYSIS REPORT



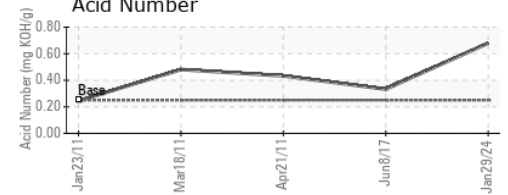
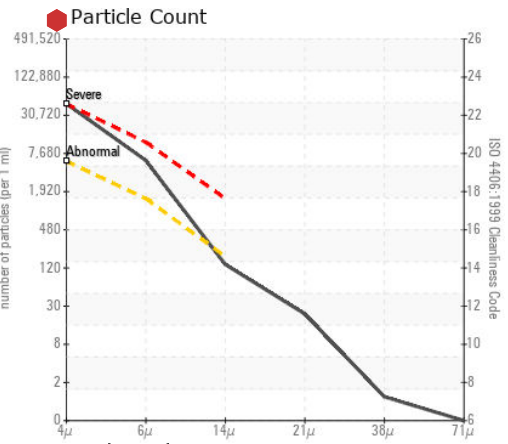
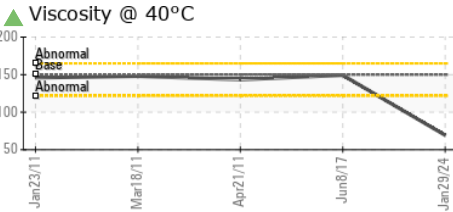
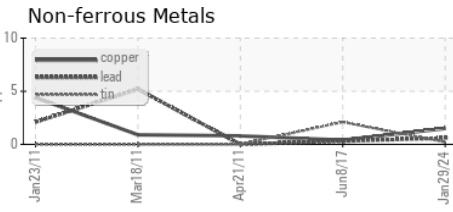
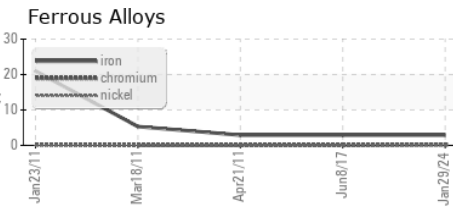
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	▲ MODER
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.1	NEG	▲ 0.1%
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	150	▲ 69.2	149.3

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

GRAPHS



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)

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 F: (251)452-6335

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)