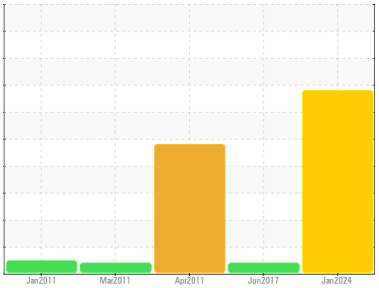
PROBLEM SUMMARY

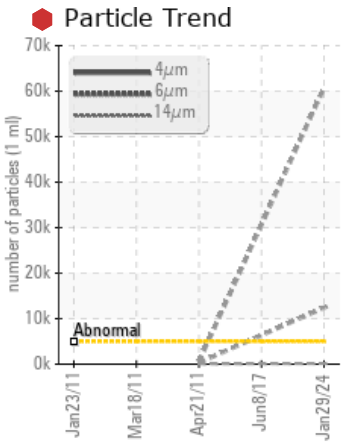
Sample Rating Trend

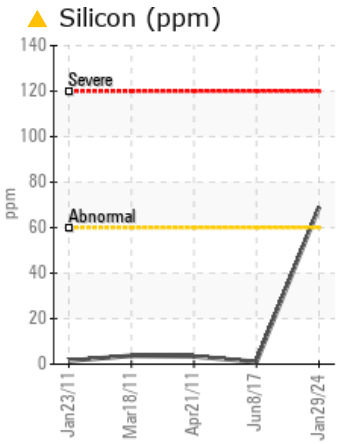


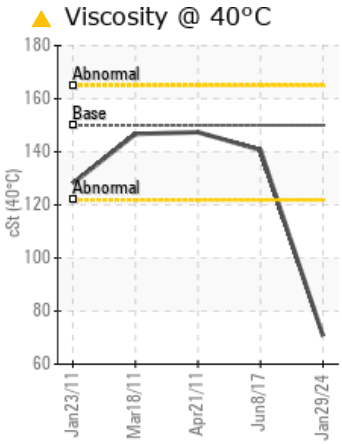
ISO

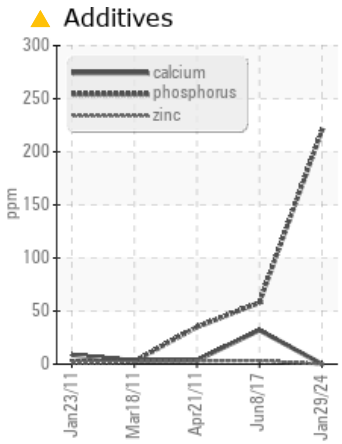
Area
TM 11
Machine Id
TM 11 WEST SIDE AIR FAN PUMP
Component
Pump
Fluid
ROYAL PURPLE SYNFILM 150 (--- GAL)

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	ABNORMAL	SEVERE
Silicon	ppm	ASTM D5185m	>60	▲ 69	1	3
Particles >4µm		ASTM D7647	>5000	⬢ 60734	---	576
Particles >6µm		ASTM D7647	>1300	⬢ 12419	---	314
Oil Cleanliness		ISO 4406 (c)	>19/17/14	⬢ 23/21/14	---	16/15/13

Customer Id: KIMMOBTM11
Sample No.: RP0038092
Lab Number: 06074730
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

VIS DEBRIS

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. We were unable to perform a particle count due to a high concentration of particles present in this sample.All component wear rates are normal. High 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

WATER

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. Resample at the next service interval to monitor.All component wear rates are normal. Free water present. There is a trace of moisture present in the oil. The amount and size of particulates present in the system is acceptable. The condition of oil is suitable for further service.

view report

18 Mar 2011 Diag: Jonathan Hester

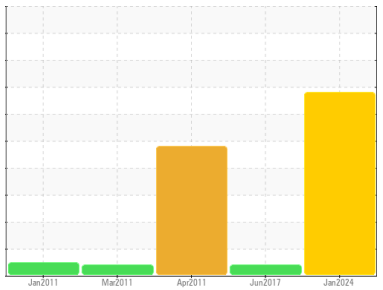
VIS DEBRIS

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. High concentration of visible dirt/debris present in the oil. There is a trace of moisture 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 WEST 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		**RP0038092**	RP183402	RP69318
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**	ABNORMAL	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**21**	---	---
Iron	ppm	ASTM D5185m	>90	**9**	8	8
Chromium	ppm	ASTM D5185m	>5	**<1**	<1	0
Nickel	ppm	ASTM D5185m	>5	**0**	<1	0
Titanium	ppm	ASTM D5185m	>3	**<1**	0	0
Silver	ppm	ASTM D5185m	>3	**0**	0	0
Aluminum	ppm	ASTM D5185m	>7	**2**	<1	<1
Lead	ppm	ASTM D5185m	>12	**<1**	2	4
Copper	ppm	ASTM D5185m	>30	**1**	6	2
Tin	ppm	ASTM D5185m	>9	**<1**	2	0
Antimony	ppm	ASTM D5185m		**---**	0	212
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	0
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**<1**	0	0
Manganese	ppm	ASTM D5185m		**0**	<1	<1
Magnesium	ppm	ASTM D5185m	90	▲ **0**	52	45
Calcium	ppm	ASTM D5185m		**0**	32	4
Phosphorus	ppm	ASTM D5185m		▲ **220**	58	35
Zinc	ppm	ASTM D5185m		**0**	3	3

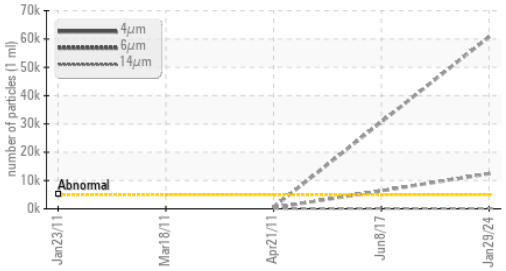
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	▲ **69**	1	3
Sodium	ppm	ASTM D5185m		**0**	4	2
Potassium	ppm	ASTM D5185m	>20	**2**	2	0
Water	%	ASTM D6304	>.1	**0.008**	0.023	▲ 0.125
ppm Water	ppm	ASTM D6304	>1000	**85**	230	▲ 1250

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	● **60734**	---	576
Particles >6µm		ASTM D7647	>1300	● **12419**	---	314
Particles >14µm		ASTM D7647	>160	**133**	---	53
Particles >21µm		ASTM D7647	>40	**20**	---	18
Particles >38µm		ASTM D7647	>10	**1**	---	2
Particles >71µm		ASTM D7647	>3	**0**	---	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	● **23/21/14**	---	16/15/13

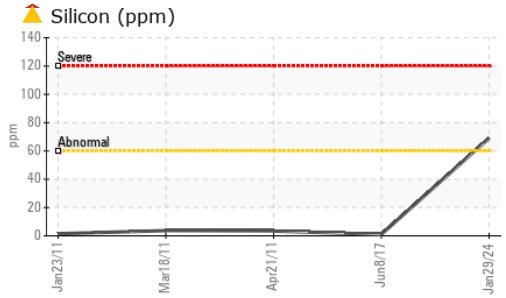
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.25	**0.69**	0.377	0.489

OIL ANALYSIS REPORT

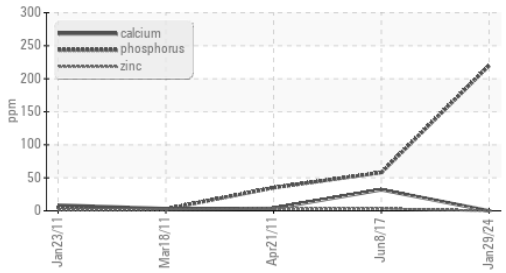
Particle Trend



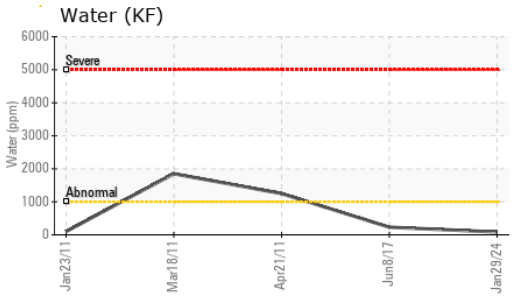
Silicon (ppm)



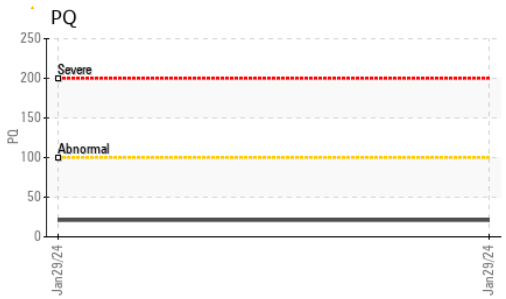
Additives



Water (KF)

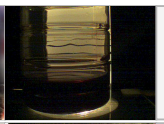


PQ



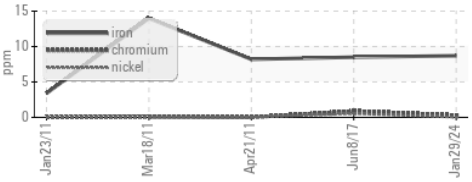
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	▲ HEAVY	LIGHT
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>.1	**NEG**	NEG	▲ 0.1%
Free Water	scalar	*Visual		**NEG**	NEG	⬢ 1.0

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	150	▲ **70.7**	140.7	147.4

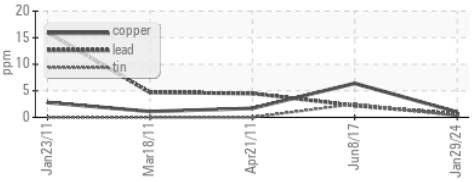
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*
MPC			*no image*	*no image*	*no image*

GRAPHS

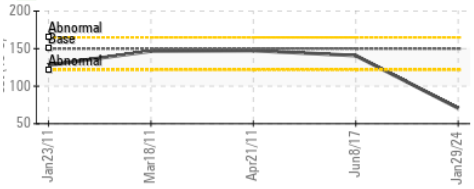
Ferrous Alloys



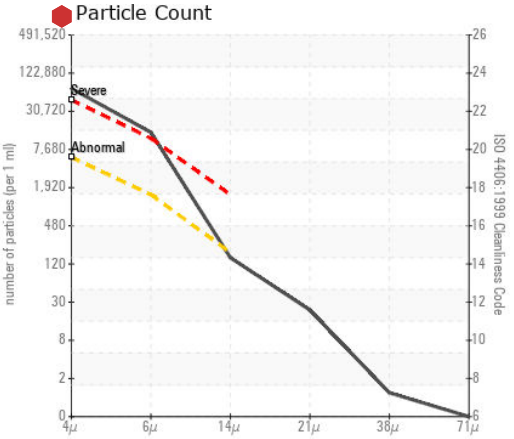
Non-ferrous Metals



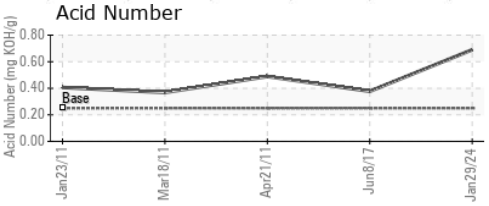
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0038092 **Recieved** : 30 Jan 2024
Lab Number : 06074730 **Diagnosed** : 01 Feb 2024
Unique Number : 10856821 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: PQ, PrtCount)

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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