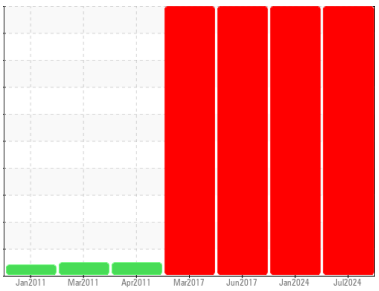
PROBLEM SUMMARY

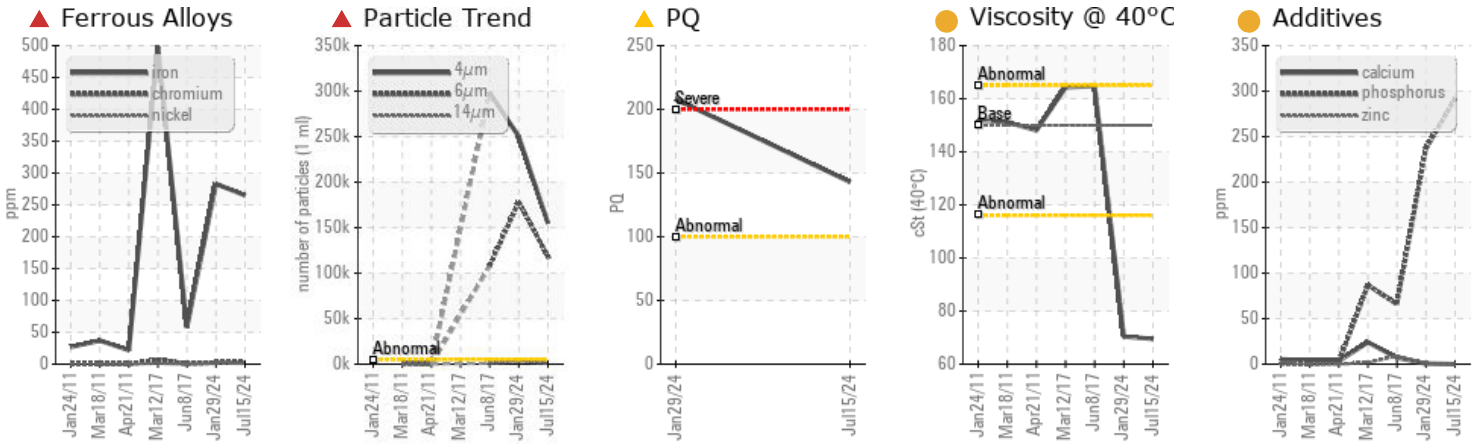
Sample Rating Trend



WEAR

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	SEVERE	SEVERE
PQ		ASTM D8184		▲ **143**	▲ 208	---
Iron	ppm	ASTM D5185m	>90	▲ **265**	▲ 283	58
Particles >4µm		ASTM D7647	>5000	▲ **155065**	▲ 250142	▲ 298091
Particles >6µm		ASTM D7647	>1300	▲ **118308**	▲ 178106	▲ 107913
Particles >14µm		ASTM D7647	>160	▲ **948**	▲ 3080	▲ 947
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **24/24/17**	▲ 25/25/19	▲ 25/24/17

Customer Id: KIMMOBTM11
Sample No.: RP0038099
Lab Number: 06237792
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Change Filter	---	---	?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

WEAR

29 Jan 2024 Diag: Jonathan Hester

We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.The iron level is severe. The very high ferrous density (PQ) index indicates that severe wear is occurring. There is a high amount of particulates present in the oil. 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. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

view report

ISO

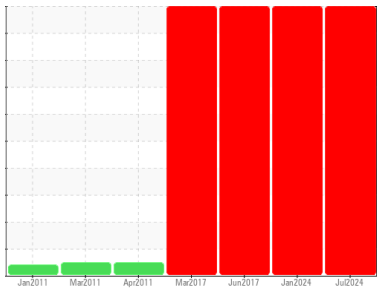
08 Jun 2017 Diag: Doug Bogart

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. Elemental level of silicon (Si) above normal indicating ingress of seal material. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

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

DIAGNOSIS

Recommendation
We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

Wear
The iron level is severe. The very high ferrous density (PQ) index indicates that severe wear is occurring.

Contamination
There is a high amount of particulates present in the oil.

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. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**RP0038099**	RP0037981	RP185463
Sample Date		Client Info		**15 Jul 2024**	29 Jan 2024	08 Jun 2017
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	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		▲ **143**	▲ 208	---
Iron	ppm	ASTM D5185m	>90	▲ **265**	▲ 283	58
Chromium	ppm	ASTM D5185m	>5	**3**	2	<1
Nickel	ppm	ASTM D5185m	>5	**1**	1	<1
Titanium	ppm	ASTM D5185m	>3	**0**	<1	<1
Silver	ppm	ASTM D5185m	>3	**0**	0	0
Aluminum	ppm	ASTM D5185m	>7	**0**	2	3
Lead	ppm	ASTM D5185m	>12	**<1**	2	7
Copper	ppm	ASTM D5185m	>30	**2**	4	22
Tin	ppm	ASTM D5185m	>9	**0**	0	2
Antimony	ppm	ASTM D5185m		**---**	---	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	<1
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	<1	0
Manganese	ppm	ASTM D5185m		**1**	1	<1
Magnesium	ppm	ASTM D5185m	90	**<1**	0	45
Calcium	ppm	ASTM D5185m		**0**	<1	7
Phosphorus	ppm	ASTM D5185m		● **292**	● 237	66
Zinc	ppm	ASTM D5185m		**0**	1	9

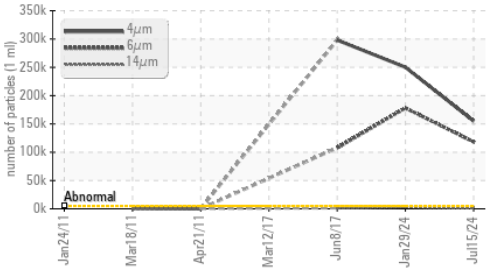
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	**10**	7	▲ 79
Sodium	ppm	ASTM D5185m		**1**	0	3
Potassium	ppm	ASTM D5185m	>20	**0**	2	2
Water	%	ASTM D6304	>.1	**0.008**	0.007	0.020
ppm Water	ppm	ASTM D6304	>1000	**80**	70	200

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **155065**	▲ 250142	▲ 298091
Particles >6µm		ASTM D7647	>1300	▲ **118308**	▲ 178106	▲ 107913
Particles >14µm		ASTM D7647	>160	▲ **948**	▲ 3080	▲ 947
Particles >21µm		ASTM D7647	>40	**16**	18	▲ 190
Particles >38µm		ASTM D7647	>10	**1**	0	▲ 22
Particles >71µm		ASTM D7647	>3	**0**	0	▲ 10
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **24/24/17**	▲ 25/25/19	▲ 25/24/17

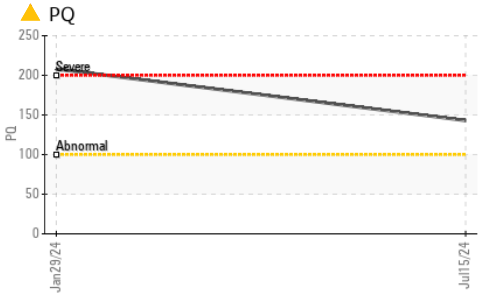
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.25	**0.69**	0.68	0.154

OIL ANALYSIS REPORT

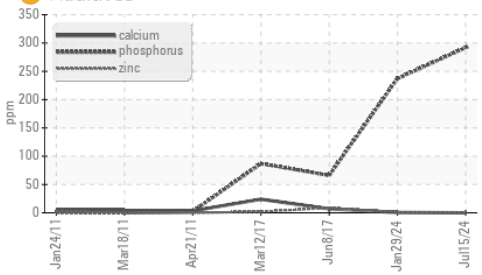
Particle Trend



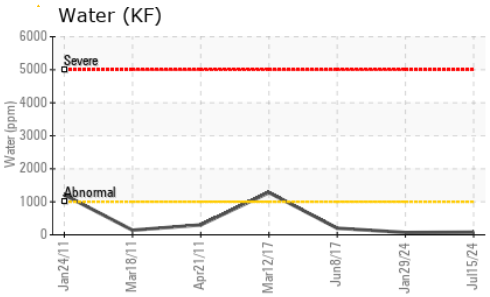
PQ



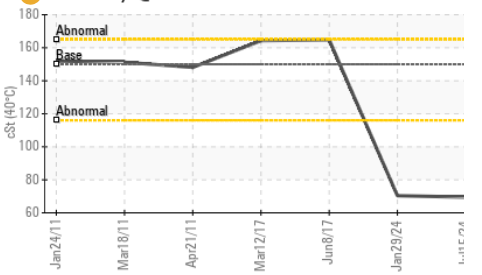
Additives



Water (KF)



Viscosity @ 40°C



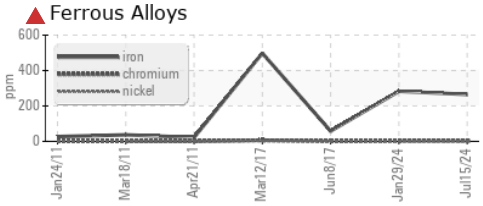
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	150	**69.5**	70.4	164.8

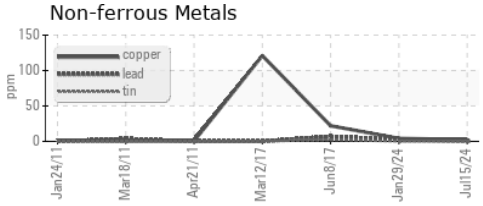
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					
MPC			*no image*	*no image*	*no image*

GRAPHS

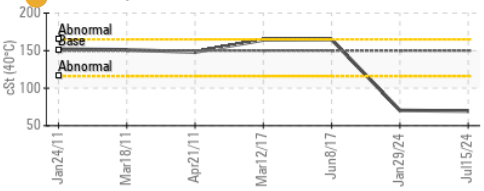
Ferrous Alloys



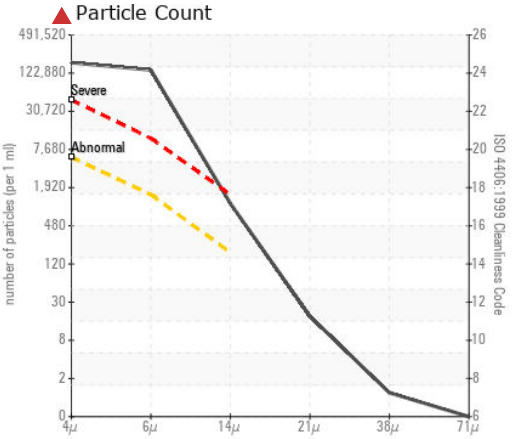
Non-ferrous Metals



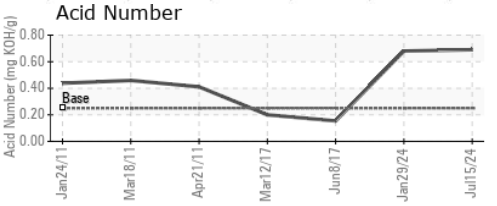
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0038099
Lab Number : 06237792
Unique Number : 11126626
Test Package : IND 2 (Additional Tests: PQ, PrtCount)

Received : 16 Jul 2024
Tested : 17 Jul 2024
Diagnosed : 18 Jul 2024 - Don Baldridge

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)

Kimberly-Clark - Mobile - TM 11
200 BAYBRIDGE RD
MOBILE, AL
US 36610
Contact: LARRY WEAVER
Larry.D.Weaver@kcc.com
T:
F: (251)452-6335