



PERFORMANCE
UNDER
PRESSURE

OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	ATTENTION

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

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RP0037981	RP185463	RP183408
Sample Date		Client Info		29 Jan 2024	08 Jun 2017	12 Mar 2017
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Filter Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	SEVERE

WEAR

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

PQ		ASTM D8184		▲ 208	---	---
Iron	ppm	ASTM D5185m	>90	● 283	58	● 498
Chromium	ppm	ASTM D5185m	>5	2	<1	7
Nickel	ppm	ASTM D5185m	>5	1	<1	1
Titanium	ppm	ASTM D5185m	>3	<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>7	2	3	▲ 12
Lead	ppm	ASTM D5185m	>12	2	7	0
Copper	ppm	ASTM D5185m	>30	4	22	● 121
Tin	ppm	ASTM D5185m	>9	0	2	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	LIGHT	● HEAVY
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

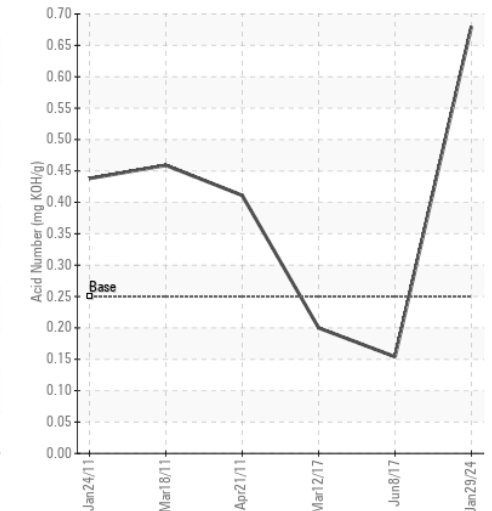
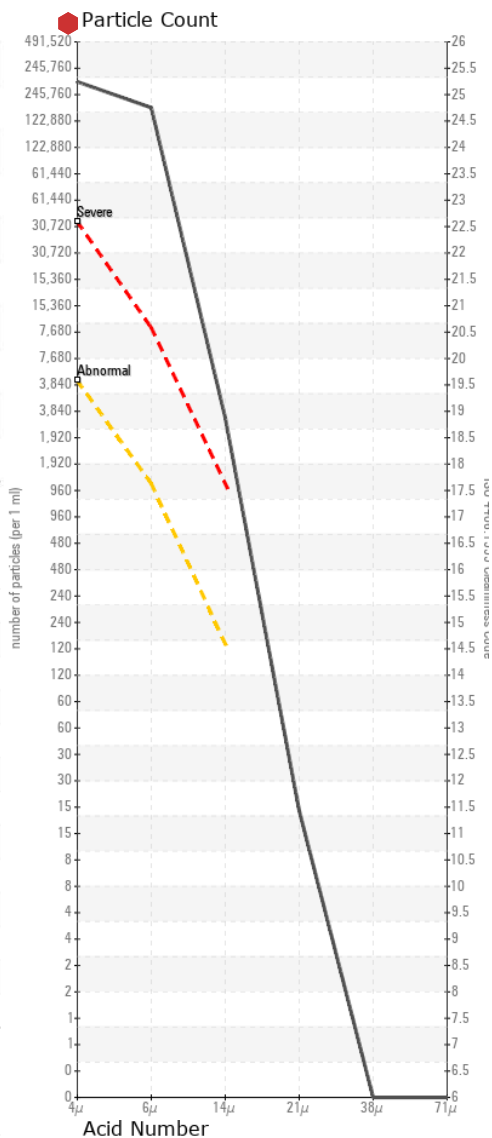
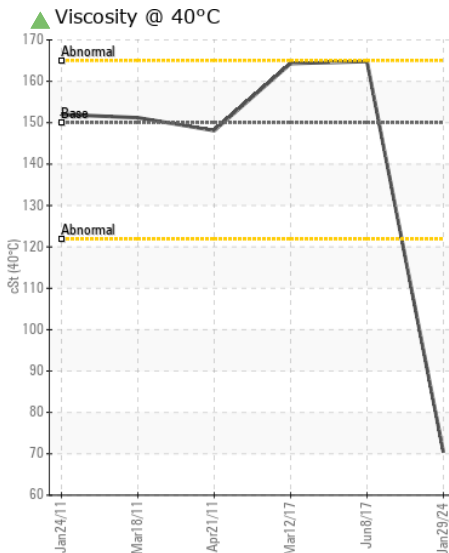
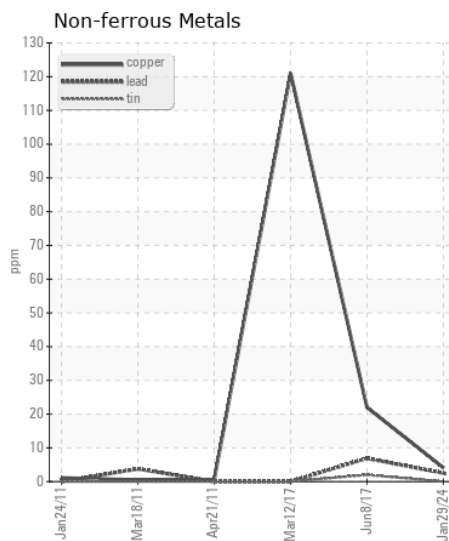
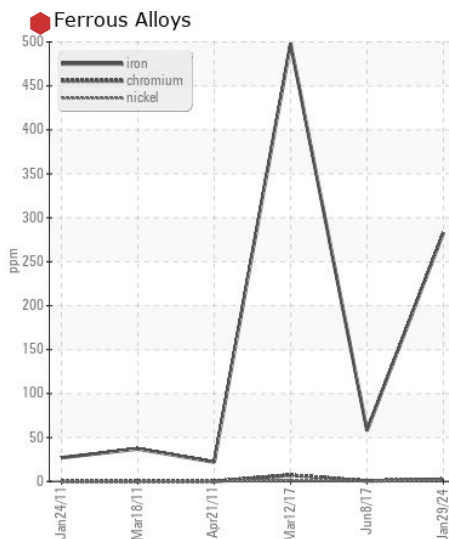
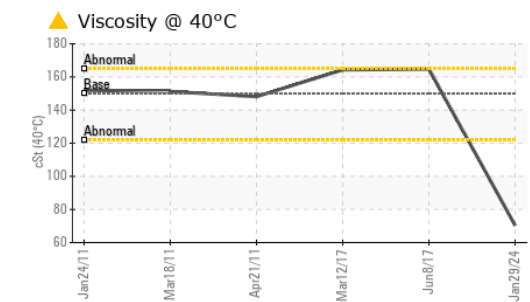
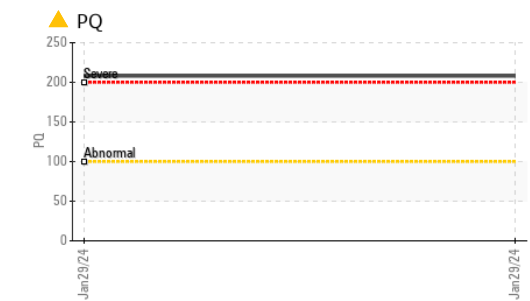
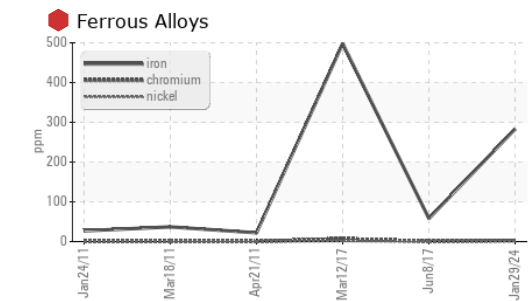
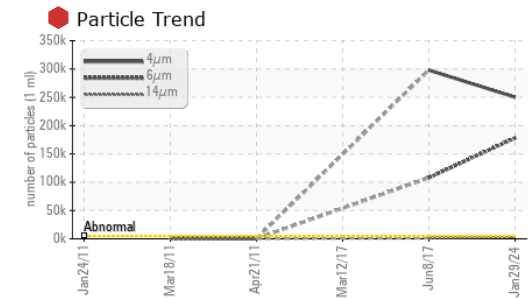
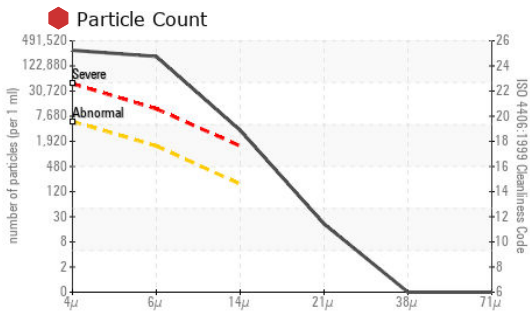
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>60	7	▲ 79	6
Potassium	ppm	ASTM D5185m	>20	2	2	<1
Water	%	ASTM D6304	>.1	0.007	0.020	▲ 0.128
ppm Water	ppm	ASTM D6304	>1000	70	200	▲ 1280
Particles >4µm		ASTM D7647	>5000	● 250142	● 298091	---
Particles >6µm		ASTM D7647	>1300	● 178106	● 107913	---
Particles >14µm		ASTM D7647	>160	● 3080	● 947	---
Particles >21µm		ASTM D7647	>40	18	● 190	---
Particles >38µm		ASTM D7647	>10	0	● 22	---
Particles >71µm		ASTM D7647	>3	0	● 10	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	● 25/25/19	● 25/24/17	---
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	NORML	NORML	▲ HAZY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.1	NEG	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. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185m		0	3	<1
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		1	<1	3
Magnesium	ppm	ASTM D5185m	90	0	45	1
Calcium	ppm	ASTM D5185m		<1	7	24
Phosphorus	ppm	ASTM D5185m		▲ 237	66	87
Zinc	ppm	ASTM D5185m		1	9	2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.25	0.68	0.154	0.200
Visc @ 40°C	cSt	ASTM D445	150	▲ 70.4	164.8	164.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0037981 **Received** : 30 Jan 2024
Lab Number : 06074729 **Diagnosed** : 01 Feb 2024
Unique Number : 10856820 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: PQ, PrtCount)

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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)