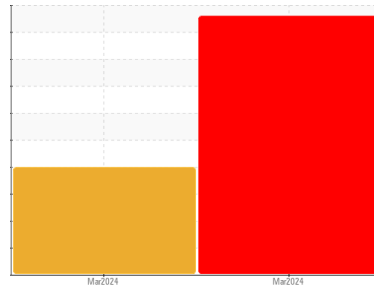


PROBLEM SUMMARY

Sample Rating Trend

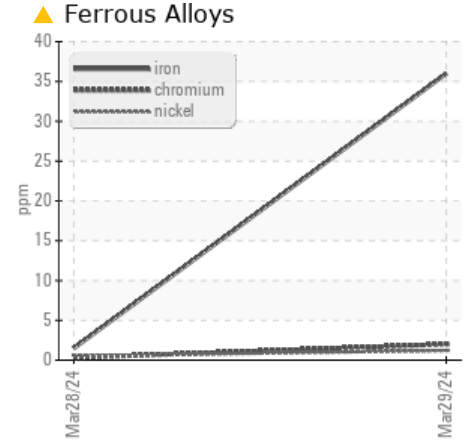
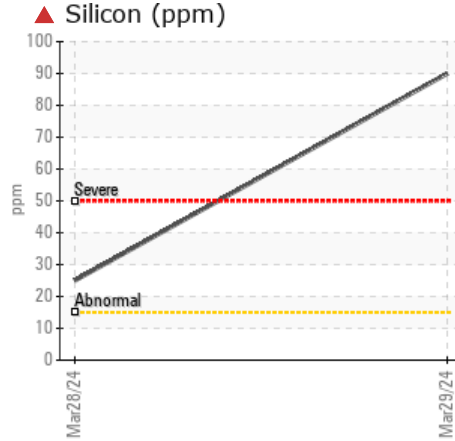
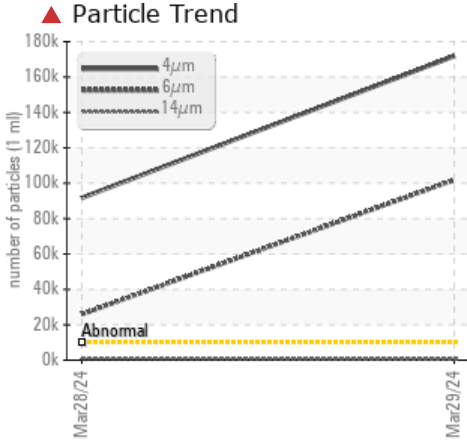


DIRT



Machine Id
F465701
Component
Plain Bearing
Fluid
ROYAL PURPLE SYNFILM GT 32 (32 Oz)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ABNORMAL	---
Iron	ppm	ASTM D5185m	>20	▲ 36	2	---
Silicon	ppm	ASTM D5185m	>15	▲ 90	▲ 25	---
Particles >4µm		ASTM D7647	>10000	▲ 171816	▲ 91707	---
Particles >6µm		ASTM D7647	>2500	▲ 101828	▲ 25898	---
Particles >14µm		ASTM D7647	>160	▲ 541	▲ 1070	---
Oil Cleanliness		ISO 4406 (c)	>20/18/14	▲ 25/24/16	▲ 24/22/17	---

Customer Id: CALGREMT
Sample No.: RP0038312
Lab Number: 06138053
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldrige +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 Filter	---	---	?	We recommend you service the filters on this component if applicable.

HISTORICAL DIAGNOSIS

DIRT



28 Mar 2024 Diag: Don Baldrige

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. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

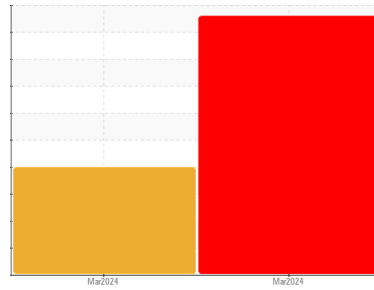
view report





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
F465701
 Component
Plain Bearing
 Fluid
ROYAL PURPLE SYNFILM GT 32 (32 Oz)

DIAGNOSIS

Recommendation
 We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear
 All component wear rates are normal.

Contamination
 There is a high amount of particulates present in the oil. Elemental level of silicon (Si) above normal.

Fluid Condition
 The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			RP0038312	RP0038313	---
Sample Date	Client Info			29 Mar 2024	28 Mar 2024	---
Machine Age	hrs	Client Info		0	0	---
Oil Age	hrs	Client Info		0	0	---
Oil Changed	Client Info			N/A	N/A	---
Sample Status				SEVERE	ABNORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	▲ 36	2	---
Chromium	ppm	ASTM D5185m	>20	2	<1	---
Nickel	ppm	ASTM D5185m	>20	1	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>20	2	2	---
Lead	ppm	ASTM D5185m	>20	<1	2	---
Copper	ppm	ASTM D5185m	>20	2	1	---
Tin	ppm	ASTM D5185m	>20	8	2	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
Cadmium	ppm	ASTM D5185m		<1	<1	---

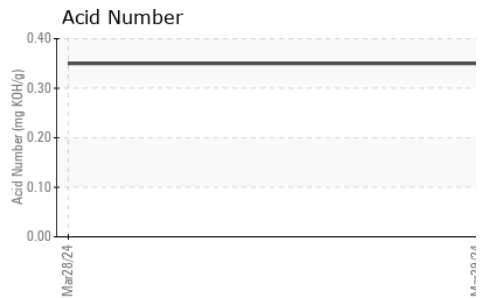
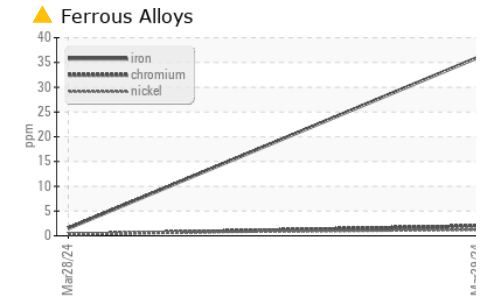
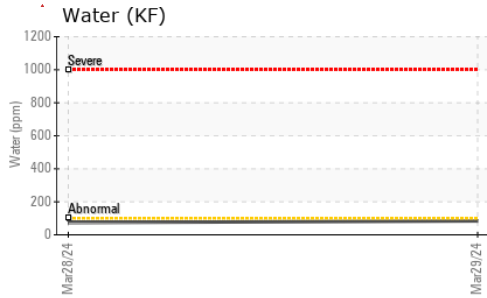
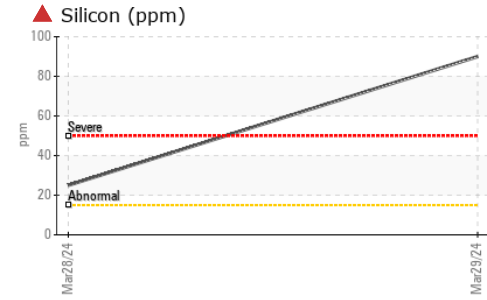
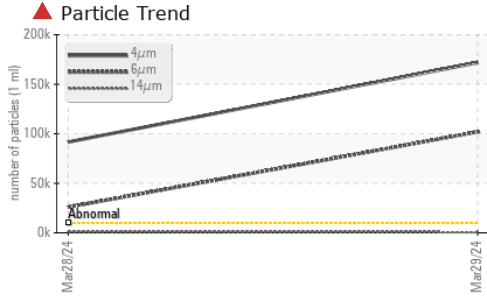
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		<1	<1	---
Manganese	ppm	ASTM D5185m		1	<1	---
Magnesium	ppm	ASTM D5185m		80	78	---
Calcium	ppm	ASTM D5185m		7	8	---
Phosphorus	ppm	ASTM D5185m		<1	6	---
Zinc	ppm	ASTM D5185m		2	6	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	▲ 90	▲ 25	---
Sodium	ppm	ASTM D5185m		4	4	---
Potassium	ppm	ASTM D5185m	>20	47	44	---
Water	%	ASTM D6304	>2	0.008	0.007	---
ppm Water	ppm	ASTM D6304		84	74	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ 171816	▲ 91707	---
Particles >6µm		ASTM D7647	>2500	▲ 101828	▲ 25898	---
Particles >14µm		ASTM D7647	>160	▲ 541	▲ 1070	---
Particles >21µm		ASTM D7647	>40	22	▲ 272	---
Particles >38µm		ASTM D7647	>10	1	▲ 13	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>20/18/14	▲ 25/24/16	▲ 24/22/17	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.35	0.35	---

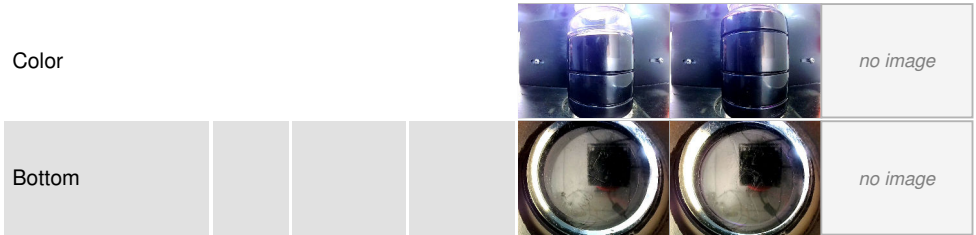
OIL ANALYSIS REPORT



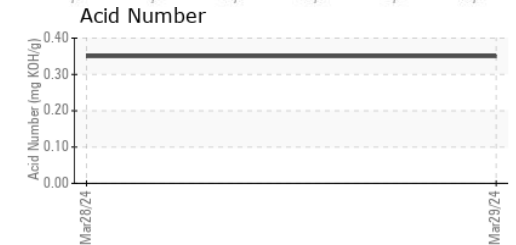
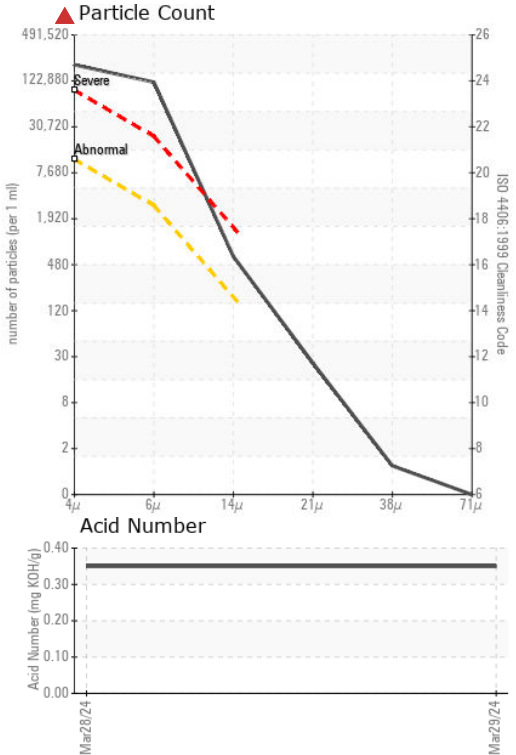
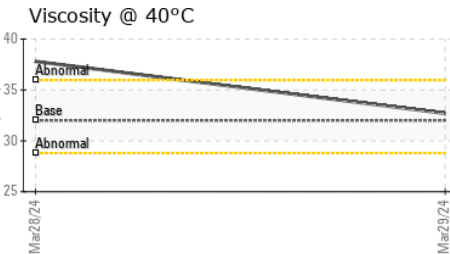
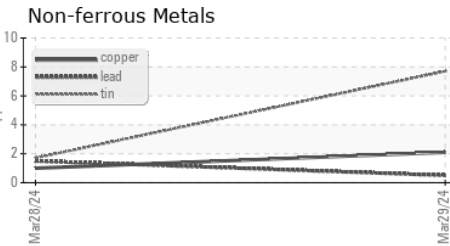
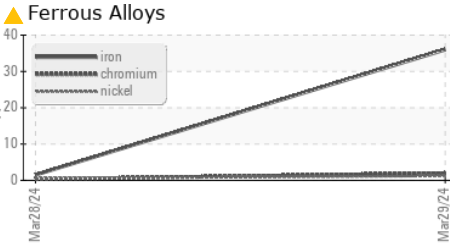
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32	32.7	37.8

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0038312 **Received** : 03 Apr 2024
Lab Number : 06138053 **Tested** : 04 Apr 2024
Unique Number : 10962861 **Diagnosed** : 05 Apr 2024 - Don Baldrige
Test Package : IND 2 (Additional Tests: PrtCount)

CALUMET MONTANA REFINERY
 1807 3RD ST NW
 GREAT FALLS, MT
 US 59404
 Contact: CODY MCRADY
 brian.schoechert@clmt.com
 T: (406)454-9854
 F:

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)