



OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id
CINCINATTI SPCC 7
 Component
Hydraulic System
 Fluid
ROYAL PURPLE SYNFILM 32 (100 GAL)

DIAGNOSIS

▲ Recommendation

We recommend you service the filters on this component. 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.

● Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within ISO 46 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	RP0039823	---	---
Sample Date	Client Info	19 Apr 2024	---	---
Machine Age	hrs	Client Info	0	---
Oil Age	hrs	Client Info	0	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

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

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	---
Barium	ppm	ASTM D5185m	0	---
Molybdenum	ppm	ASTM D5185m	<1	---
Manganese	ppm	ASTM D5185m	0	---
Magnesium	ppm	ASTM D5185m 90	7	---
Calcium	ppm	ASTM D5185m	114	---
Phosphorus	ppm	ASTM D5185m	503	---
Zinc	ppm	ASTM D5185m	662	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	1	---
Sodium	ppm	ASTM D5185m	0	---
Potassium	ppm	ASTM D5185m >20	1	---
Water	%	ASTM D6304 >0.05	0.003	---
ppm Water	ppm	ASTM D6304 >500	30	---

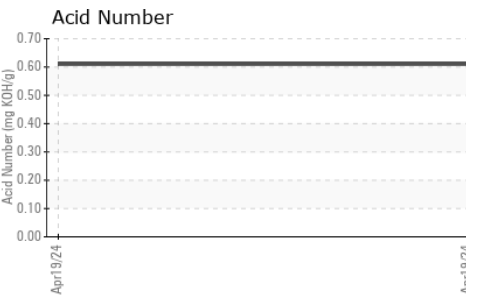
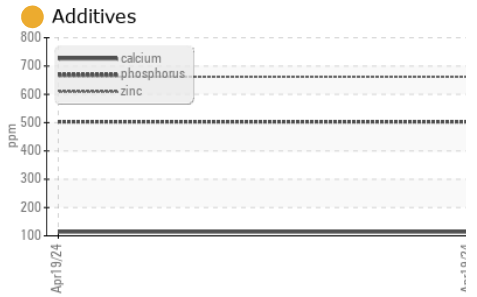
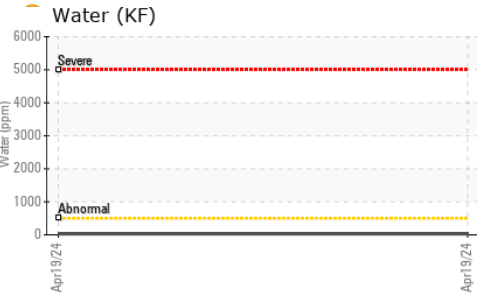
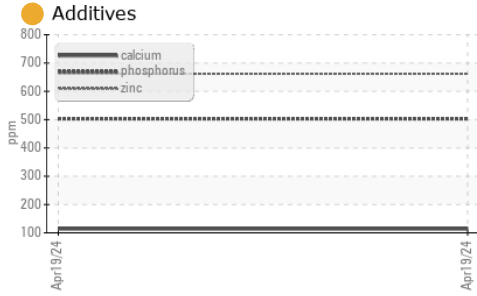
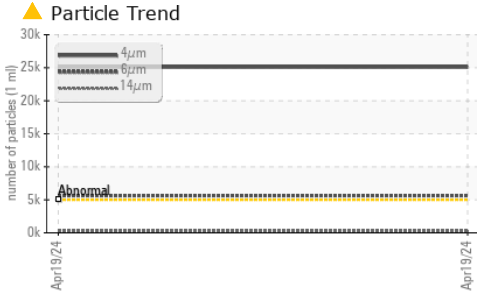
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 25096	---
Particles >6µm	ASTM D7647	>1300	▲ 5632	---
Particles >14µm	ASTM D7647	>160	▲ 270	---
Particles >21µm	ASTM D7647	>40	▲ 58	---
Particles >38µm	ASTM D7647	>10	2	---
Particles >71µm	ASTM D7647	>3	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 22/20/15	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.61	---

OIL ANALYSIS REPORT



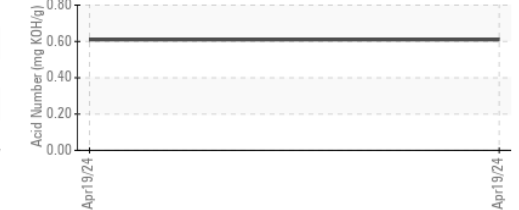
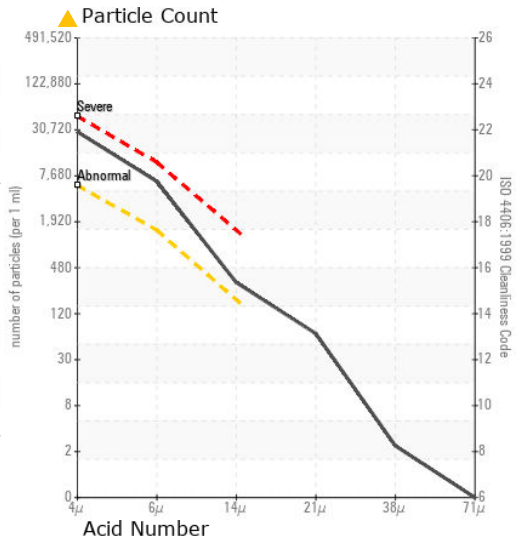
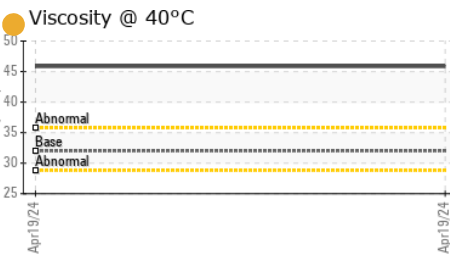
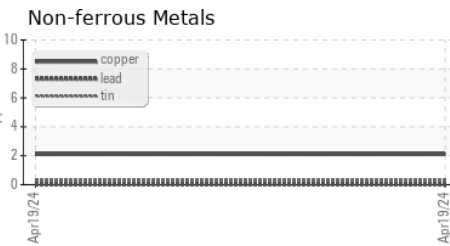
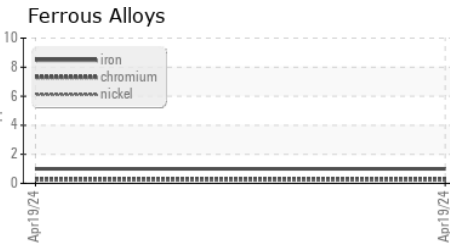
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32	45.86	---

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0039823
Lab Number : 06157691
Unique Number : 10993114
Test Package : IND 2
Received : 23 Apr 2024
Tested : 26 Apr 2024
Diagnosed : 29 Apr 2024 - Jonathan Hester

MANCHESTER TANK
 3400 WISMANN LANE
 QUINCY, IL
 US 62301
 Contact: Service Manager

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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F: