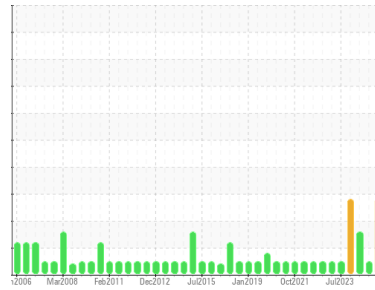




OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
038CM312.003

Component
Turbine

Fluid
ROYAL PURPLE SYNFILM GT 32 (500 GAL)

DIAGNOSIS

Recommendation

The oil is near the end of its useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

The AN level is above the recommended limit.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	RP0027323	RP0027336	RP0028207
Sample Date	Client Info	15 Jul 2024	15 Apr 2024	15 Feb 2024
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	NORMAL	MARGINAL

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >15	0	0
Chromium	ppm	ASTM D5185m >4	0	0
Nickel	ppm	ASTM D5185m >2	0	<1
Titanium	ppm	ASTM D5185m	0	0
Silver	ppm	ASTM D5185m	0	0
Aluminum	ppm	ASTM D5185m >10	0	<1
Lead	ppm	ASTM D5185m	0	<1
Copper	ppm	ASTM D5185m >5	0	2
Tin	ppm	ASTM D5185m >5	<1	<1
Vanadium	ppm	ASTM D5185m	0	0
Cadmium	ppm	ASTM D5185m	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0
Barium	ppm	ASTM D5185m	0	0
Molybdenum	ppm	ASTM D5185m	0	0
Manganese	ppm	ASTM D5185m	0	1
Magnesium	ppm	ASTM D5185m	2	2
Calcium	ppm	ASTM D5185m	0	<1
Phosphorus	ppm	ASTM D5185m	2543	2592
Zinc	ppm	ASTM D5185m	0	0

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<1	0
Sodium	ppm	ASTM D5185m	0	1
Potassium	ppm	ASTM D5185m >20	0	2
Water	%	ASTM D6304 >0.03	▲ 0.109	0.098
ppm Water	ppm	ASTM D6304 >300	▲ 1095	988

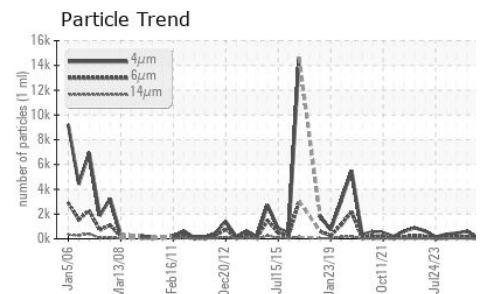
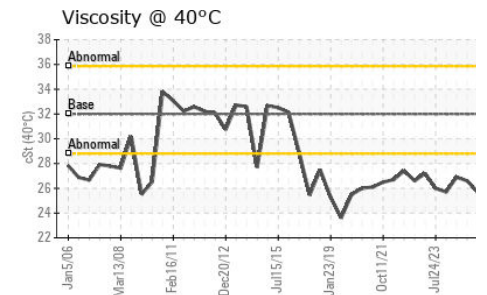
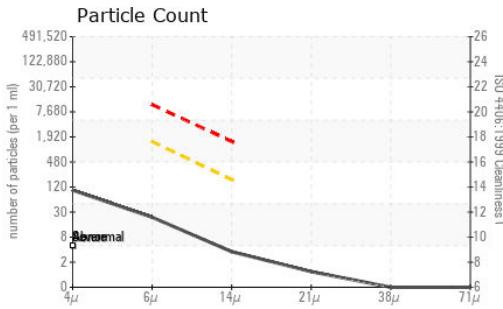
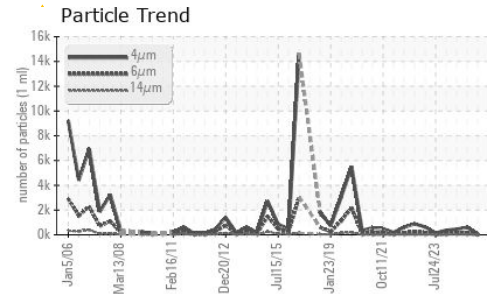
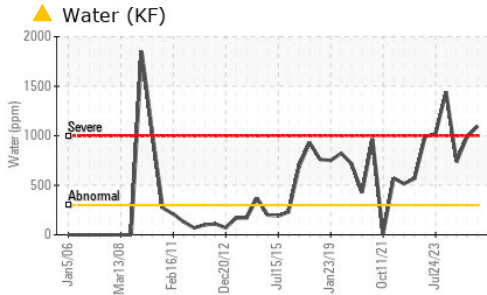
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	89	591	460
Particles >6µm	ASTM D7647 >1300	20	170	175
Particles >14µm	ASTM D7647 >160	3	28	30
Particles >21µm	ASTM D7647 >40	1	9	13
Particles >38µm	ASTM D7647 >10	0	0	1
Particles >71µm	ASTM D7647 >3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>--/17/14	14/11/9	16/15/12

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	▲ 1.16	0.62

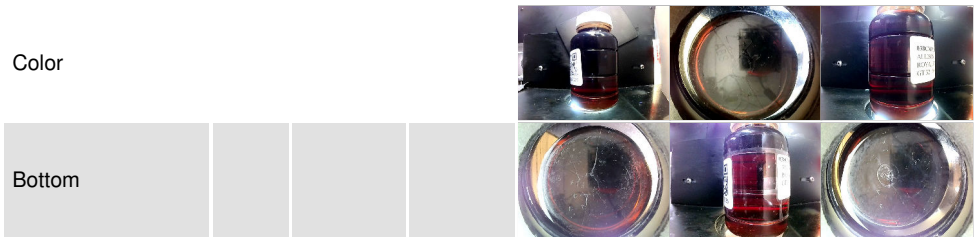
OIL ANALYSIS REPORT



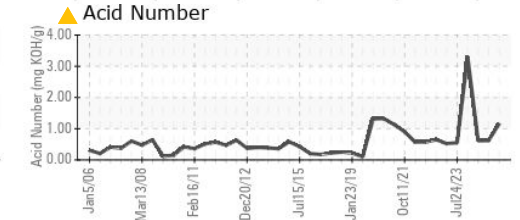
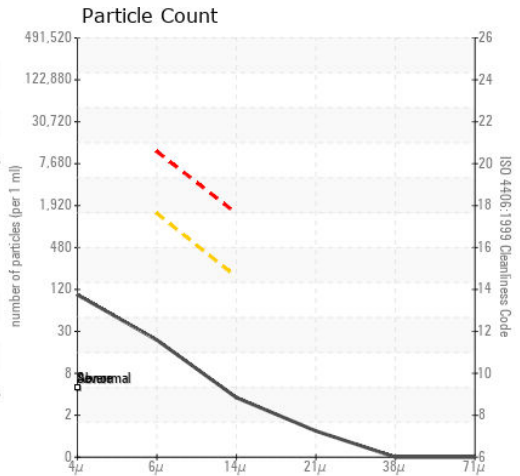
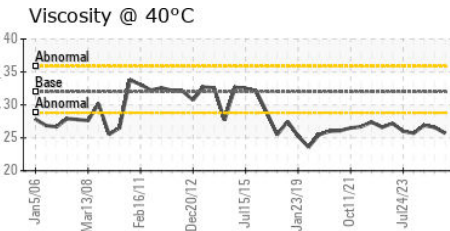
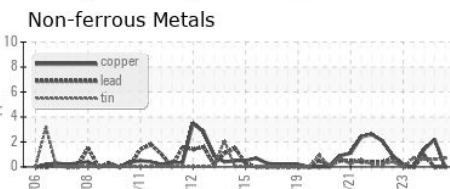
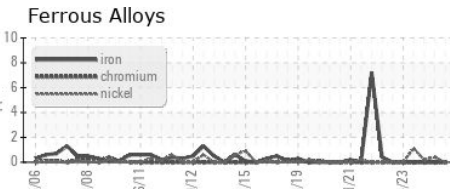
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.03	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32	25.7	26.6

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. : RP0027323 **Received** : 16 Jul 2024
Lab Number : 06237772 **Tested** : 17 Jul 2024
Unique Number : 11126606 **Diagnosed** : 18 Jul 2024 - Don Baldrige
Test Package : IND 2 (Additional Tests: PrtCount)

ENTERPRISE PRODUCTS
P.O. BOX 573
MONT BELVIEU, TX
US 77580
Contact: TOMMY EDWARDS
tedwards@eprod.com
T: (281)217-1411
F: (281)385-4327

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)