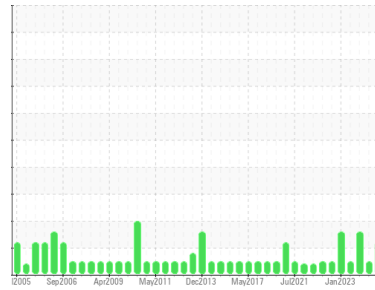




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id

082CM12003

Component

Turbine

Fluid

ROYAL PURPLE SYNFILM GT 32 (250 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

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		RP0041054	RP0020798	RP0027355
Sample Date	Client Info		09 Apr 2024	17 Oct 2023	09 Jul 2023
Machine Age	hrs	Client Info	0	0	0
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ATTENTION	NORMAL	ATTENTION

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >15	0	0	0
Chromium	ppm	ASTM D5185m >4	0	0	0
Nickel	ppm	ASTM D5185m >2	0	0	<1
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >10	0	0	2
Lead	ppm	ASTM D5185m	0	0	<1
Copper	ppm	ASTM D5185m >5	5	5	4
Tin	ppm	ASTM D5185m >5	0	0	<1
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	0
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0
Manganese	ppm	ASTM D5185m	0	0	<1
Magnesium	ppm	ASTM D5185m	70	81	77
Calcium	ppm	ASTM D5185m	1	0	1
Phosphorus	ppm	ASTM D5185m	1	4	2
Zinc	ppm	ASTM D5185m	0	0	0

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	0	<1	<1
Sodium	ppm	ASTM D5185m	2	2	<1
Potassium	ppm	ASTM D5185m >20	0	0	2
Water	%	ASTM D6304 >0.03	0.022	0.013	0.022
ppm Water	ppm	ASTM D6304 >300	230	132.4	225.2

FLUID CLEANLINESS

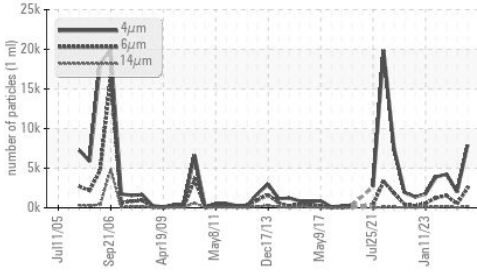
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		7893	2003	4234
Particles >6µm	ASTM D7647 >1300		2494	466	1541
Particles >14µm	ASTM D7647 >160		178	35	174
Particles >21µm	ASTM D7647 >40		48	15	51
Particles >38µm	ASTM D7647 >10		1	2	2
Particles >71µm	ASTM D7647 >3		0	1	0
Oil Cleanliness	ISO 4406 (c) >--/17/14		20/18/15	18/16/12	19/18/15

FLUID DEGRADATION

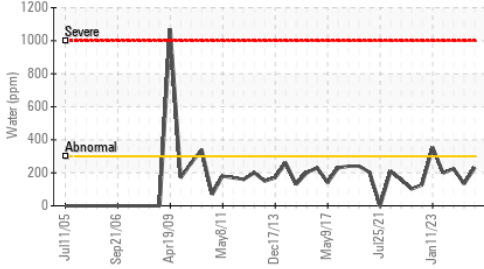
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.37	0.37	0.31

OIL ANALYSIS REPORT

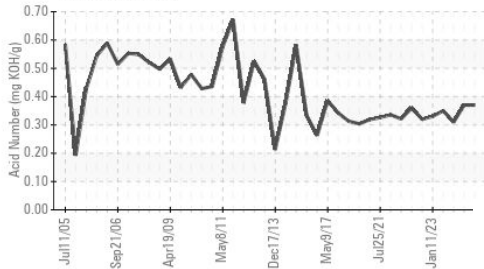
Particle Trend



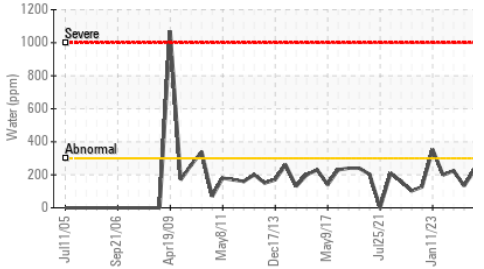
Water (KF)



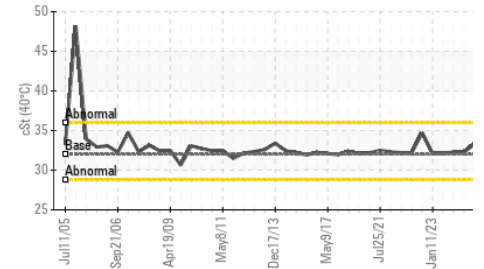
Acid Number



Water (KF)



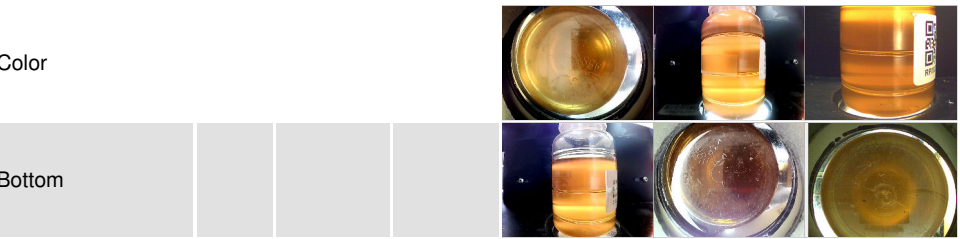
Viscosity @ 40°C



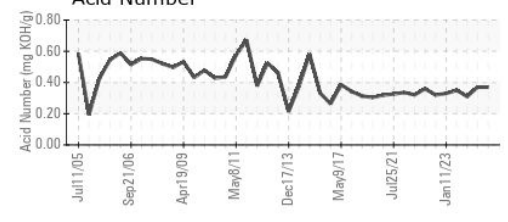
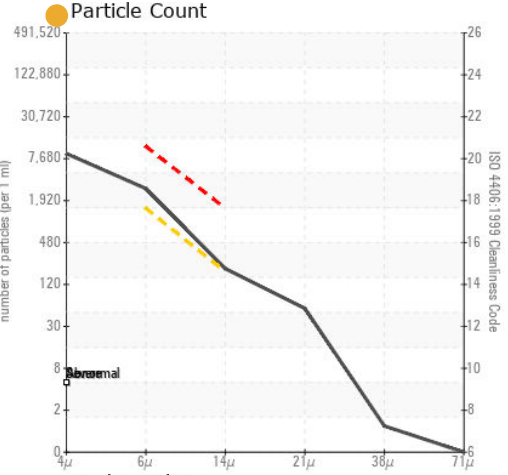
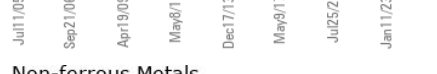
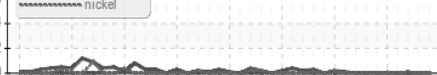
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	LIGHT
Debris	scalar	*Visual	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	33.3	32.3

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0041054 **Received** : 10 Apr 2024
Lab Number : 06144238 **Tested** : 11 Apr 2024
Unique Number : 10969046 **Diagnosed** : 12 Apr 2024 - Angela Borella
Test Package : IND 2 (Additional Tests: PrtCount)

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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)