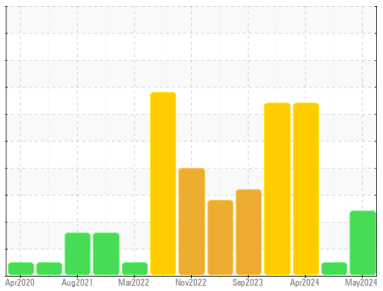
OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Machine Id
CHLR-2A
Component
Turbine
Fluid
ROYAL PURPLE SYNFILM GT 32 (--- 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 high amount of particulates present in the oil. Moderate concentration of visible dirt/debris present in the oil.

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**RP0043282**	RP0041522	RP0039507
Sample Date		Client Info		**13 May 2024**	12 May 2024	17 Apr 2024
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				**ABNORMAL**	NORMAL	SEVERE

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

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	0
Barium	ppm	ASTM D5185m		**<1**	2	0
Molybdenum	ppm	ASTM D5185m		**0**	<1	0
Manganese	ppm	ASTM D5185m		**<1**	0	<1
Magnesium	ppm	ASTM D5185m		**104**	97	<1
Calcium	ppm	ASTM D5185m		**3**	5	0
Phosphorus	ppm	ASTM D5185m		**8**	6	0
Zinc	ppm	ASTM D5185m		**0**	2	1

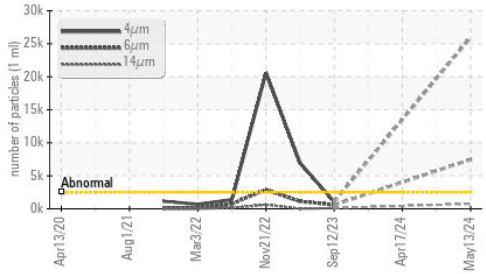
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**0**	<1	2
Sodium	ppm	ASTM D5185m		**2**	0	0
Potassium	ppm	ASTM D5185m	>20	**2**	1	1
Water	%	ASTM D6304	>0.03	**0.022**	0.021	▲ 0.330
ppm Water	ppm	ASTM D6304	>300	**229**	219	▲ 3300

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	▲ **25954**	---	---
Particles >6µm		ASTM D7647	>640	▲ **7463**	---	---
Particles >14µm		ASTM D7647	>80	▲ **747**	---	---
Particles >21µm		ASTM D7647	>20	**238**	---	---
Particles >38µm		ASTM D7647	>4	▲ **21**	---	---
Particles >71µm		ASTM D7647	>3	**4**	---	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	▲ **22/20/17**	---	---

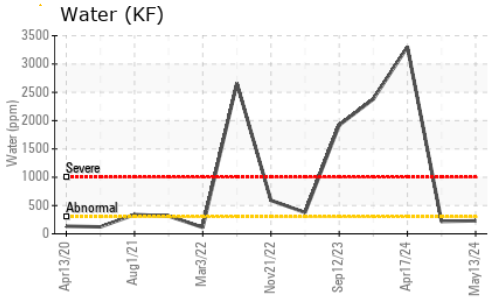
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.46**	0.43	0.13

OIL ANALYSIS REPORT

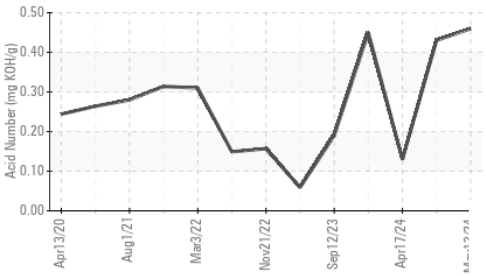
Particle Trend



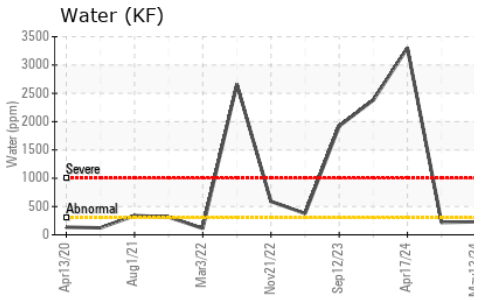
Water (KF)



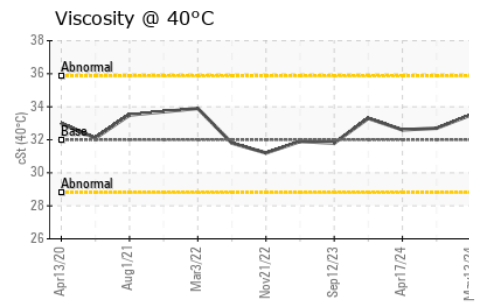
Acid Number



Water (KF)



Viscosity @ 40°C



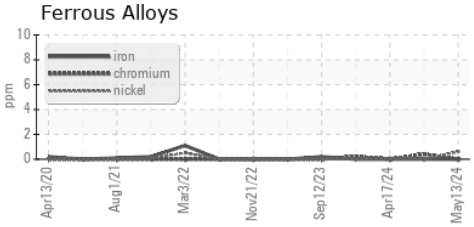
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	▲ **MODER**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.03	**NEG**	NEG	▲ 0.2%
Free Water	scalar	*Visual		**NEG**	NEG	▲ >10%

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32	**33.5**	32.7	32.6

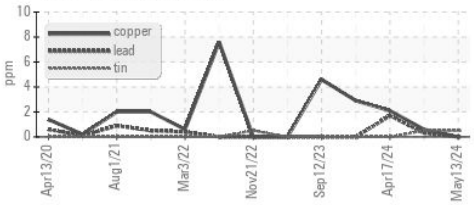
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

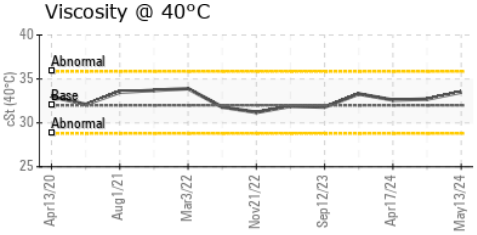
Ferrous Alloys



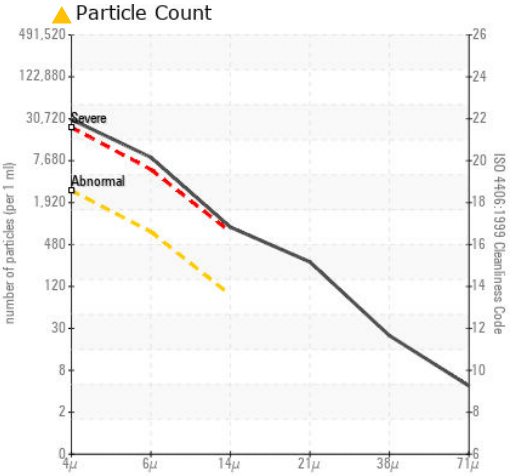
Non-ferrous Metals



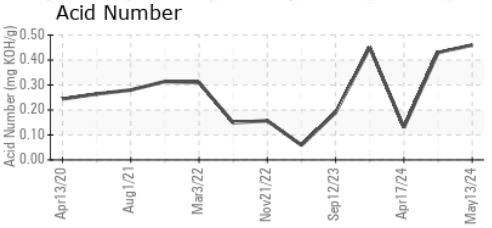
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0043282
Lab Number : 06179424
Unique Number : 11030750
Test Package : IND 2 (Additional Tests: PrtCount)

Received : 14 May 2024
Tested : 16 May 2024
Diagnosed : 16 May 2024 - Angela Borella

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)

ENGIE-MATEP
474 BROOKLINE AVE
BOSTON, MA
US 02215
Contact: ROBERT ST SAUVEUR
robert.stsauveur@engie.com
T: (401)651-9381
F:

Report Id: ENGBOS [WUSCAR] 06179424 (Generated: 05/16/2024 19:51:08) Rev: 1

Contact/Location: ROBERT ST SAUVEUR - ENGBOS