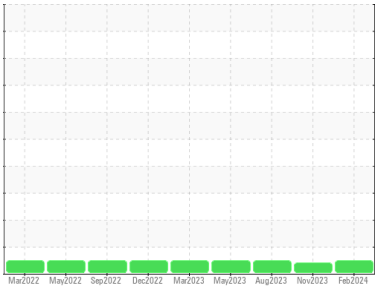
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
CRNG_U1 CRNG_U1_P1
Component
Drive End Pump
Fluid
SHELL TELLUS 32 (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
The water content is negligible. There is no indication of any contamination 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		**RP0032743**	RP0027366	RP0027196
Sample Date		Client Info		**15 Feb 2024**	14 Nov 2023	03 Aug 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				**NORMAL**	ABNORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	**6**	11	6
Chromium	ppm	ASTM D5185m	>5	**<1**	<1	0
Nickel	ppm	ASTM D5185m	>5	**<1**	<1	0
Titanium	ppm	ASTM D5185m	>3	**<1**	<1	0
Silver	ppm	ASTM D5185m	>3	**<1**	0	0
Aluminum	ppm	ASTM D5185m	>7	**<1**	<1	0
Lead	ppm	ASTM D5185m	>12	**<1**	<1	<1
Copper	ppm	ASTM D5185m	>30	**1**	<1	2
Tin	ppm	ASTM D5185m	>9	**<1**	<1	0
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**<1**	<1	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**<1**	0	0
Barium	ppm	ASTM D5185m		**5**	<1	1
Molybdenum	ppm	ASTM D5185m		**1**	<1	<1
Manganese	ppm	ASTM D5185m		**<1**	<1	0
Magnesium	ppm	ASTM D5185m	11	**48**	62	5
Calcium	ppm	ASTM D5185m	35	**36**	17	41
Phosphorus	ppm	ASTM D5185m	259	**310**	291	286
Zinc	ppm	ASTM D5185m	277	**429**	332	369

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	**1**	<1	0
Sodium	ppm	ASTM D5185m		**0**	0	2
Potassium	ppm	ASTM D5185m	>20	**1**	1	0
Water	%	ASTM D6304	>.1	**0.004**	0.004	0.003
ppm Water	ppm	ASTM D6304	>1000	**43**	49	38.3

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.32	**0.32**	0.35	0.38

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	**LIGHT**	▲ MODER	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	>.1	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

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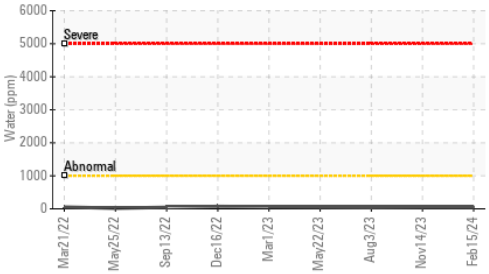
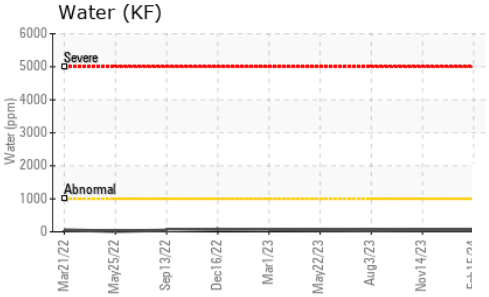
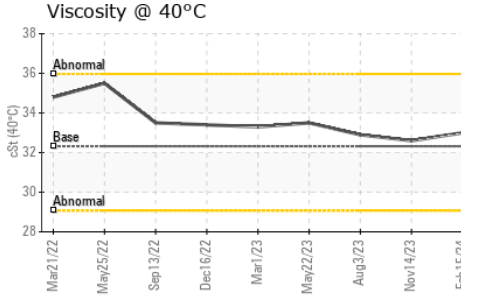
Water (KF)



Water (KF)

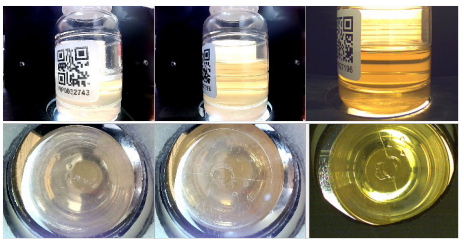


Viscosity @ 40°C



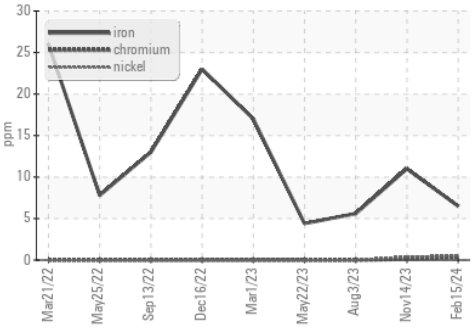
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32.32	**33.0**	32.6	32.9

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

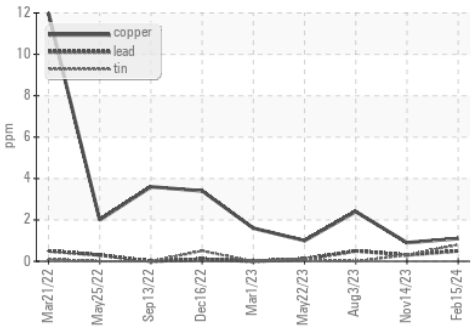


GRAPHS

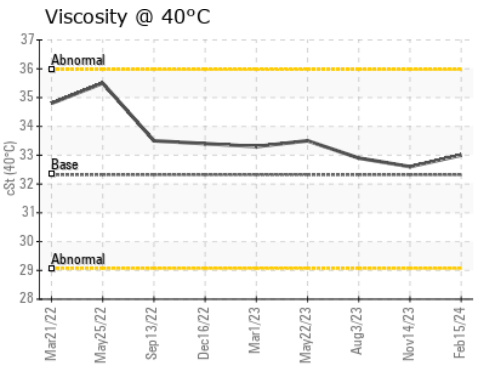
Ferrous Alloys



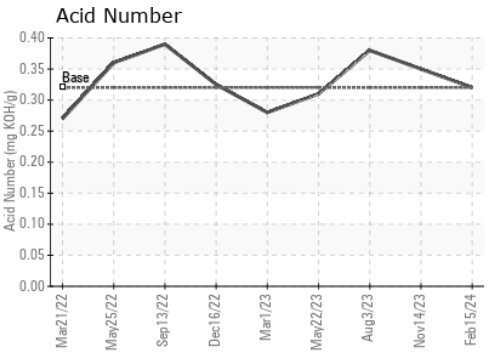
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0032743
Lab Number : 06099244
Unique Number : 10897474
Test Package : IND 2

Received : 23 Feb 2024
Tested : 27 Feb 2024
Diagnosed : 27 Feb 2024 - Don Baldridge

ENERGY TRANSFER - CORNING
3346 GORTON ROAD
CORNING, NY
US 14830
Contact: NICHOLAS PUCCI
NICHOLAS.PUCCI@ENERGYTRANSFER.COM
T: (610)858-3838
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)