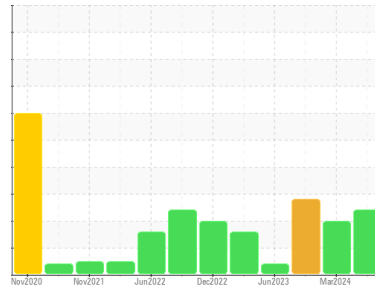




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**Control oil**  
 Component  
**Turbine**  
 Fluid  
 {not provided} (--- 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

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		<b>WC0839387</b>	WC0814545	WC0814539
Sample Date	Client Info		<b>10 Jul 2024</b>	05 Mar 2024	24 Oct 2023
Machine Age	hrs	Client Info	<b>26286</b>	26286	60
Oil Age	hrs	Client Info	<b>26286</b>	26286	60
Oil Changed	Client Info		<b>N/A</b>	Filtered	Filtered
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.03	<b>NEG</b>	NEG	NEG

## WEAR METALS

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

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m	<b>1</b>	0	0
Calcium	ppm	ASTM D5185m	<b>1</b>	0	2
Phosphorus	ppm	ASTM D5185m	<b>1056</b>	1001	1068
Zinc	ppm	ASTM D5185m	<b>20</b>	18	9
Sulfur	ppm	ASTM D5185m	<b>236</b>	178	197

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>4</b>	3	4
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Potassium	ppm	ASTM D5185m >20	<b>0</b>	0	0

## FLUID CLEANLINESS

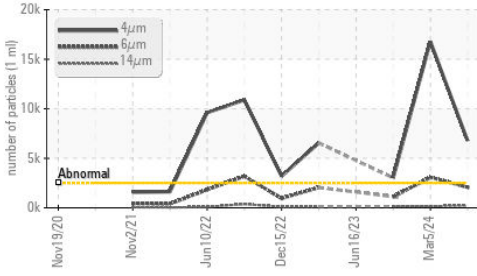
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	<b>▲ 6778</b>	▲ 16780	● 3021
Particles >6µm	ASTM D7647	>640	<b>▲ 2076</b>	▲ 3083	● 1121
Particles >14µm	ASTM D7647	>80	<b>▲ 212</b>	▲ 158	● 148
Particles >21µm	ASTM D7647	>20	<b>▲ 73</b>	▲ 42	● 49
Particles >38µm	ASTM D7647	>4	<b>▲ 8</b>	2	● 5
Particles >71µm	ASTM D7647	>3	<b>1</b>	0	1
Oil Cleanliness	ISO 4406 (c)	>18/16/13	<b>▲ 20/18/15</b>	▲ 21/19/14	● 19/17/14

## FLUID DEGRADATION

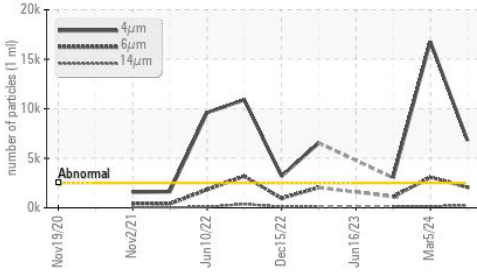
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.12</b>	0.15	0.15

# OIL ANALYSIS REPORT

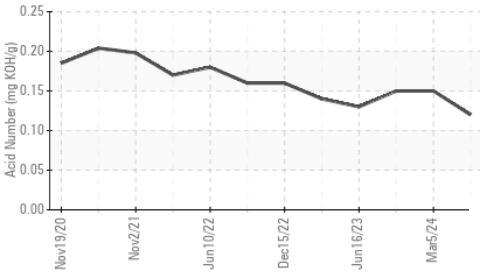
▲ Particle Trend



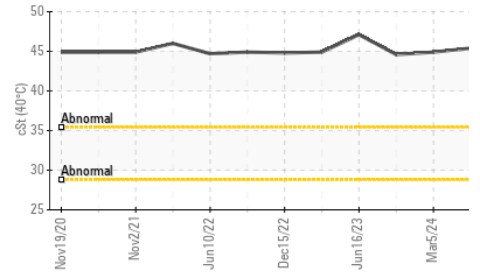
▲ Particle Trend



Acid Number



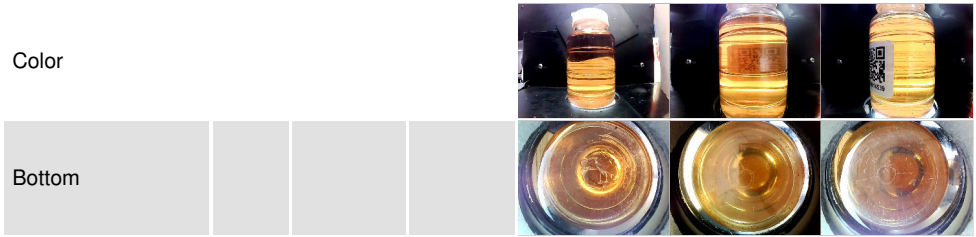
Viscosity @ 40°C



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	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER
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

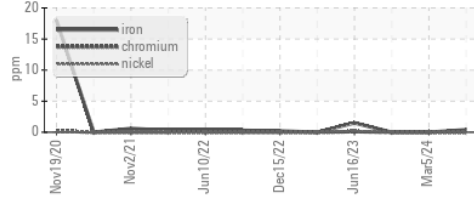
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45.4	44.9	44.6

SAMPLE IMAGES	method	limit/base	current	history1	history2
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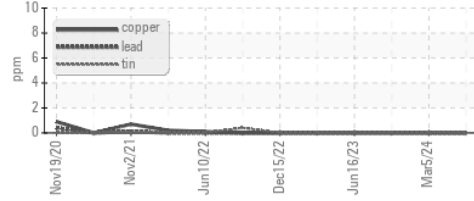


## GRAPHS

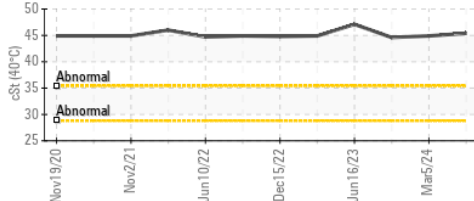
Ferrous Alloys



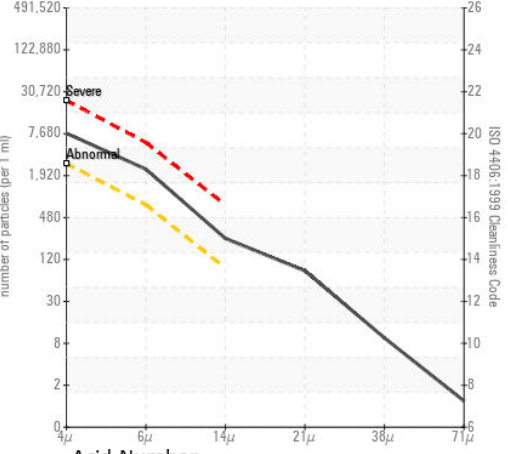
Non-ferrous Metals



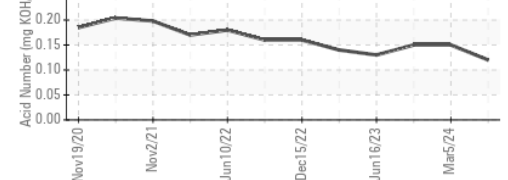
Viscosity @ 40°C



▲ Particle Count



Acid Number



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0839387 **Received** : 17 Jul 2024  
**Lab Number** : 06239562 **Tested** : 18 Jul 2024  
**Unique Number** : 11128396 **Diagnosed** : 19 Jul 2024 - Don Baldrige  
**Test Package** : IND 2

**VEOLIA ENERGY - FRANKLIN**  
 3465 HWY 198  
 CARNESVILLE, GA  
 US 30521  
 Contact: JOHNNY STONE  
 johnny.stone@veolia.com

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)