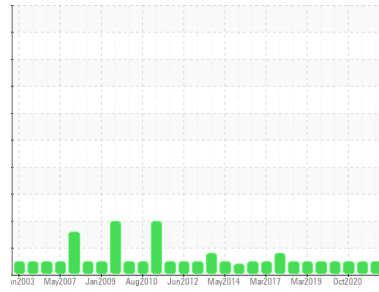




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area

[21-3682]

Machine Id

TURBLEX AERATION BLOWER 3 (S/N 3890)

Component

Hydraulic System

Fluid

SHELL TELLUS 46 (273 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

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		WC0408707	WC0528876	WC0408717
Sample Date	Client Info		17 Feb 2022	11 Jun 2021	29 Oct 2020
Machine Age	hrs	Client Info	116380	112884	107820
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		Not Chngd	Filtered	Filtered
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.05	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<1	0	<1
Chromium	ppm	ASTM D5185m >20	0	0	0
Nickel	ppm	ASTM D5185m >20	0	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	<1	0	<1
Aluminum	ppm	ASTM D5185m >20	0	<1	0
Lead	ppm	ASTM D5185m >20	0	0	<1
Copper	ppm	ASTM D5185m >20	5	5	5
Tin	ppm	ASTM D5185m >20	0	0	0
Antimony	ppm	ASTM D5185m	0	0	0
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	3	2	3
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 0	0	<1	<1
Manganese	ppm	ASTM D5185m	0	0	0
Magnesium	ppm	ASTM D5185m 11	3	5	5
Calcium	ppm	ASTM D5185m 35	125	114	118
Phosphorus	ppm	ASTM D5185m 266	400	329	354
Zinc	ppm	ASTM D5185m 276	421	417	418
Sulfur	ppm	ASTM D5185m 1847	2535	1988	2152

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	2	1	2
Sodium	ppm	ASTM D5185m	2	2	3
Potassium	ppm	ASTM D5185m >20	0	0	0

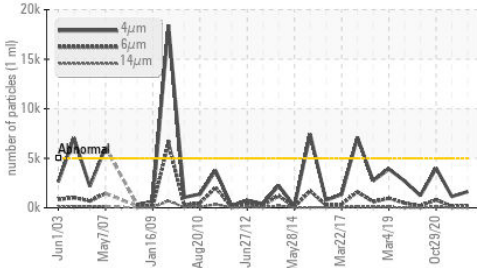
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	1636	1133	3995
Particles >6µm	ASTM D7647	>1300	201	145	808
Particles >14µm	ASTM D7647	>160	16	20	104
Particles >21µm	ASTM D7647	>40	6	7	47
Particles >38µm	ASTM D7647	>10	2	0	8
Particles >71µm	ASTM D7647	>3	0	0	2
Oil Cleanliness	ISO 4406 (c)	>19/17/14	18/15/11	17/14/11	19/17/14

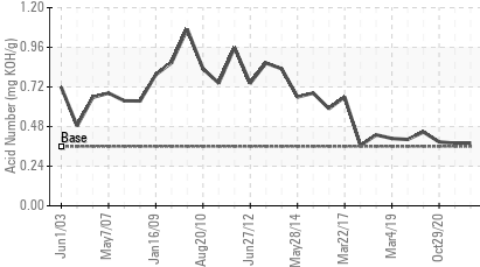


OIL ANALYSIS REPORT

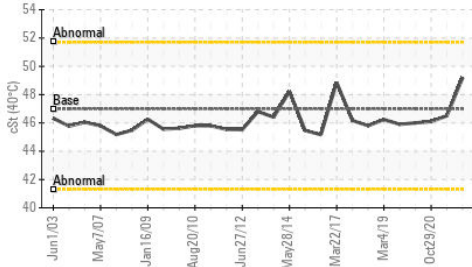
Particle Trend



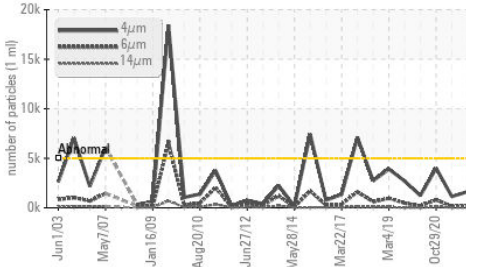
Acid Number



Viscosity @ 40°C



Particle Trend



FLUID DEGRADATION method limit/base current history1 history2

Acid Number (AN)	mg KOH/g	ASTM D8045	0.36	0.38	0.379	0.387
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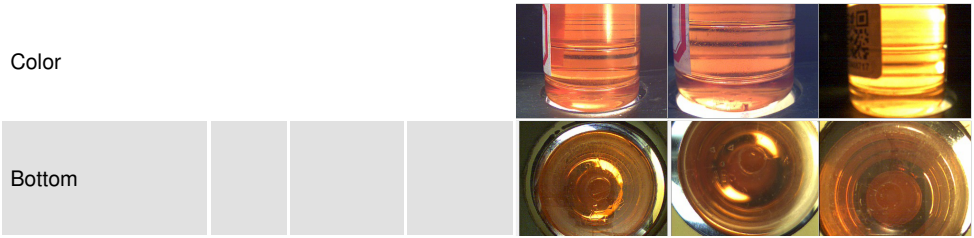
VISUAL method limit/base current history1 history2

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	NONE	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	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPERTIES method limit/base current history1 history2

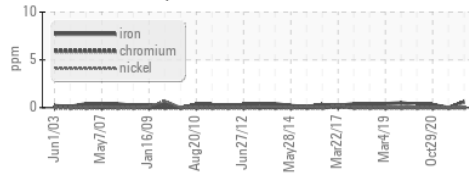
Visc @ 40°C	cSt	ASTM D445	46.99	49.2	46.5	46.1
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SAMPLE IMAGES method limit/base current history1 history2

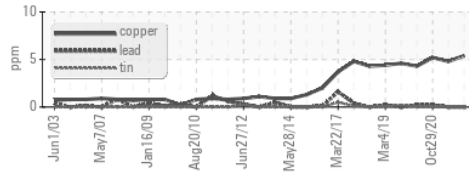


GRAPHS

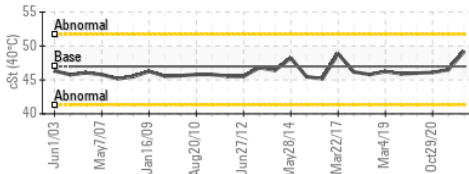
Ferrous Alloys



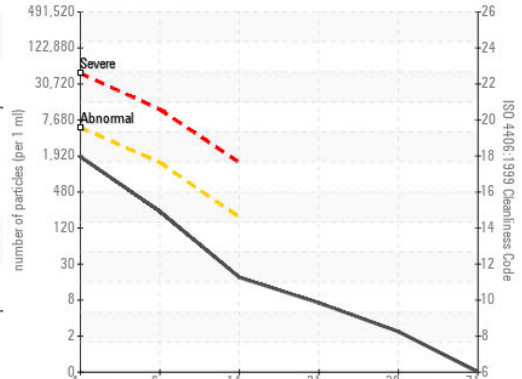
Non-ferrous Metals



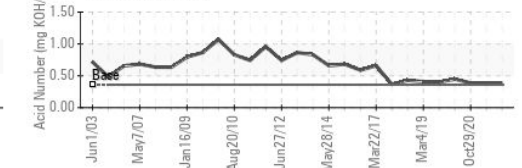
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0408707
Lab Number : 05477065
Unique Number : 9866279
Test Package : IND 2

Received : 24 Feb 2022
Tested : 28 Feb 2022
Diagnosed : 01 Mar 2022 - Jonathan Hester

VEOLIA NORTH AMERICA
 190 M STREET EXTENSION
 AGAWAM, MA
 US 01001

Contact: Paul Orzechowski
 paul.orzechowski@veolia.com

T: (413)575-3782
 F: (413)732-7071

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)