



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[21-3682]

Machine Id

TURBLEX AERATION BLOWER 3 (S/N 3890)

Component

Hydraulic System

Fluid

SHELL TELLUS 46 (273 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	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
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Filtered	Filtered
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

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
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

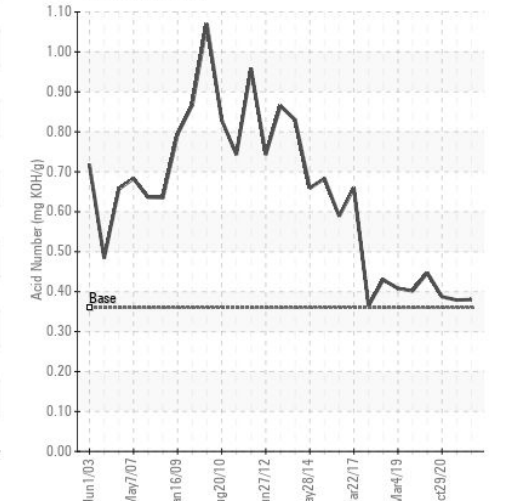
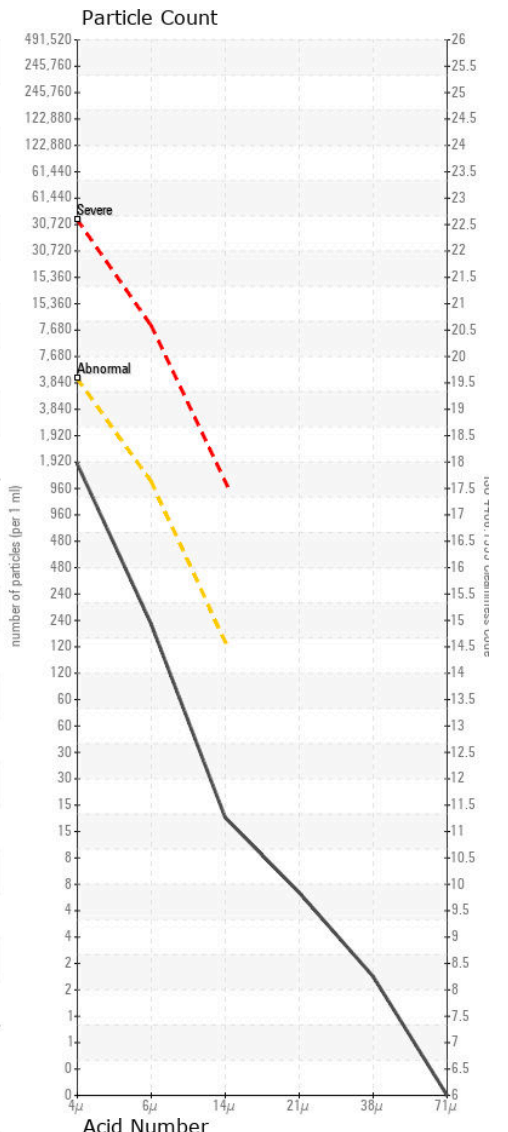
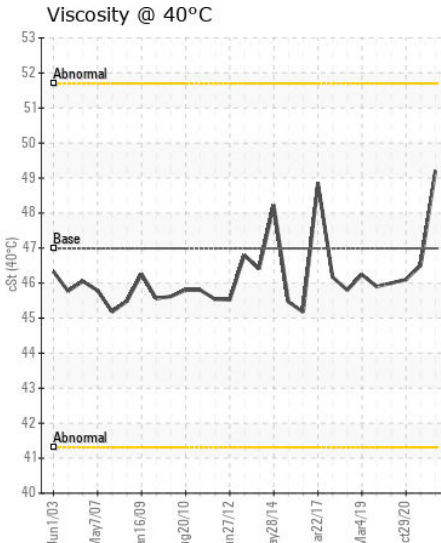
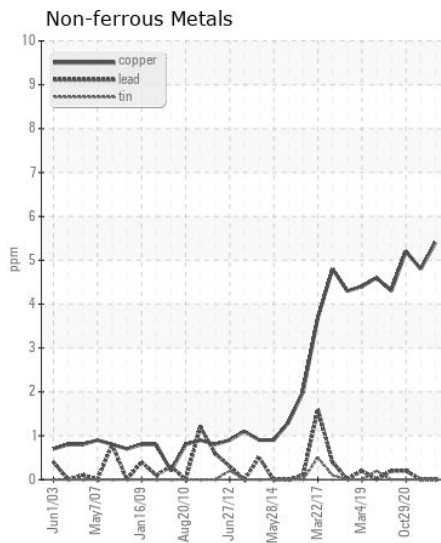
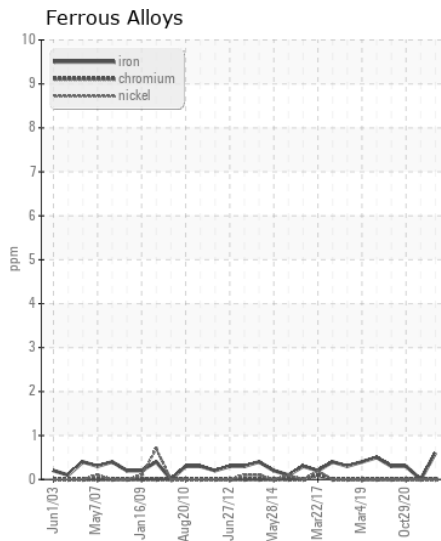
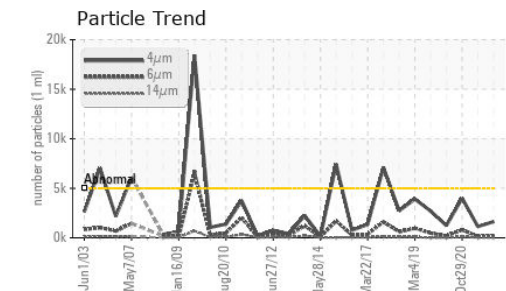
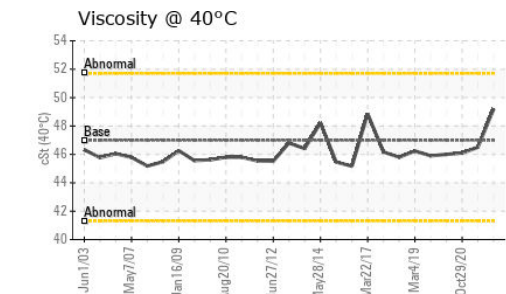
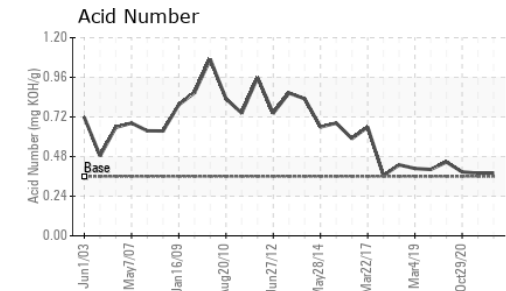
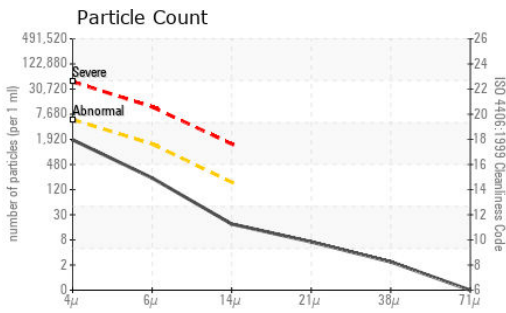
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>15	2	1	2
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water		WC Method	>0.05	NEG	NEG	NEG
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
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

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		2	2	3
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
Acid Number (AN)	mg KOH/g	ASTM D8045	0.36	0.38	0.379	0.387
Visc @ 40°C	cSt	ASTM D445	46.99	49.2	46.5	46.1



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
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Certificate L2367
 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)