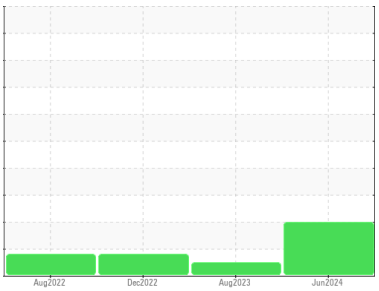
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Area
Stoneway Concrete Renton
Machine Id
[Stoneway Concrete Renton] 10-535
Component
Transmission (Auto)
Fluid
BP AUTRAN SYN 295 (--- GAL)

DIAGNOSIS

Recommendation
No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
The copper level is abnormal. All other component wear rates are normal.

Contamination
There is a moderate amount of silt (particulates < 14 microns in size) present in the fluid.

Fluid Condition
The AN level is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PE0002059**	PE0002284	PE0000337
Sample Date		Client Info		**17 Jun 2024**	31 Aug 2023	23 Dec 2022
Machine Age	mls	Client Info		**45433**	2628	1396
Oil Age	mls	Client Info		**45433**	2628	1396
Oil Changed		Client Info		**N/A**	Not Changd	Not Changd
Sample Status				**ABNORMAL**	NORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	**23**	19	16
Iron	ppm	ASTM D5185m	>160	**70**	61	53
Chromium	ppm	ASTM D5185m	>5	**0**	<1	<1
Nickel	ppm	ASTM D5185m	>5	**<1**	1	1
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m	>5	**0**	0	0
Aluminum	ppm	ASTM D5185m	>50	**41**	28	18
Lead	ppm	ASTM D5185m	>50	▲ **105**	65	36
Copper	ppm	ASTM D5185m	>225	**25**	19	12
Tin	ppm	ASTM D5185m	>10	**4**	4	3
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		**13**	12	23
Barium	ppm	ASTM D5185m		**<1**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	<1	<1
Manganese	ppm	ASTM D5185m		**2**	2	1
Magnesium	ppm	ASTM D5185m		**1**	1	1
Calcium	ppm	ASTM D5185m		**120**	75	64
Phosphorus	ppm	ASTM D5185m		**207**	204	208
Zinc	ppm	ASTM D5185m		**26**	2	9
Sulfur	ppm	ASTM D5185m		**1414**	1413	1161

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	**8**	5	3
Sodium	ppm	ASTM D5185m		**7**	8	3
Potassium	ppm	ASTM D5185m	>20	**2**	2	<1

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	● **10197**	4720	▲ 32497
Particles >6µm		ASTM D7647	>2500	● **2665**	770	2055
Particles >14µm		ASTM D7647	>320	**177**	86	27
Particles >21µm		ASTM D7647	>80	**35**	28	5
Particles >38µm		ASTM D7647	>20	**2**	4	0
Particles >71µm		ASTM D7647	>4	**0**	1	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	● **21/19/15**	19/17/14	▲ 22/18/12

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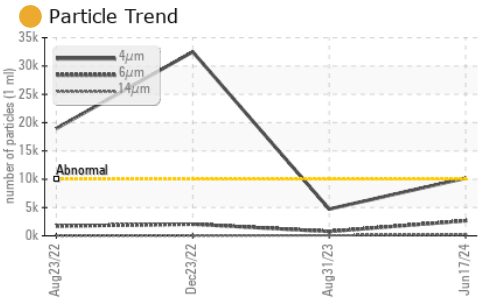
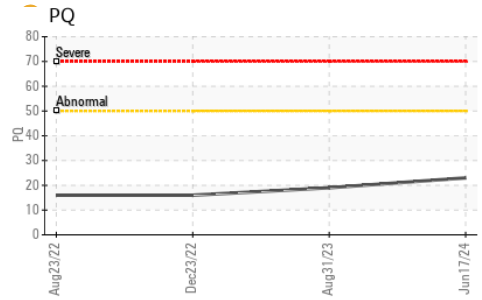
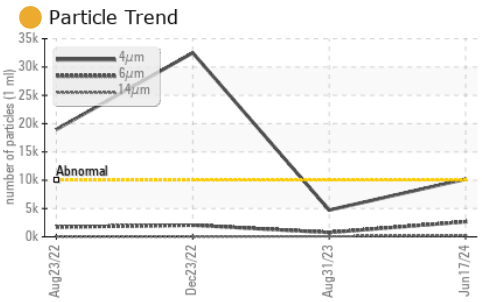
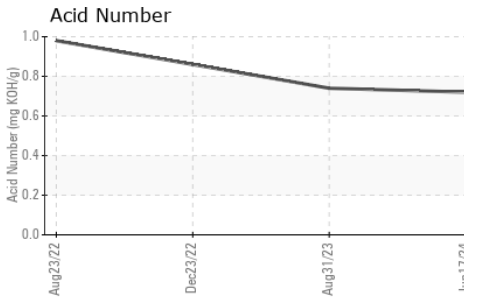
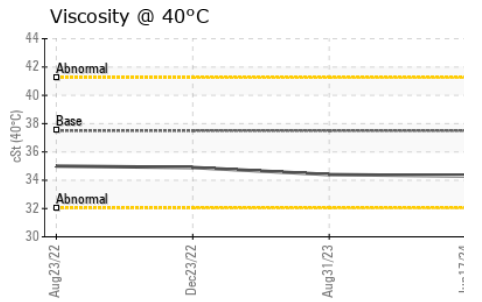










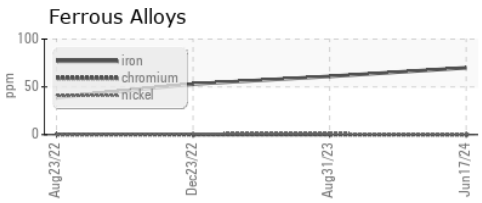
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.72**	0.74	0.86

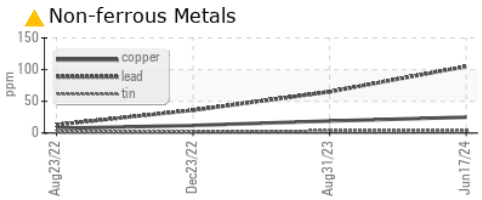
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**LIGHT**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

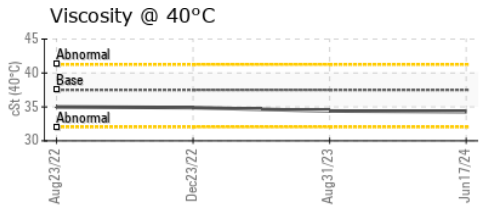
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	37.5	**34.3**	34.4	34.9

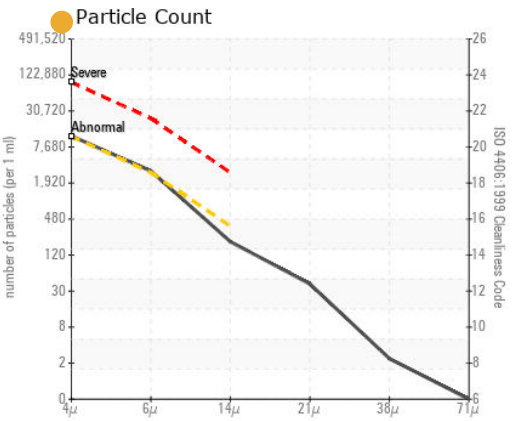
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

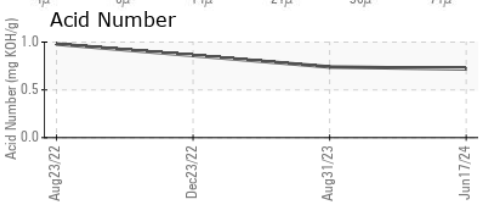
GRAPHS











Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PE0002059
Lab Number : 06221074
Unique Number : 11099271
Test Package : CONST (Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN)

Received : 26 Jun 2024
Tested : 27 Jun 2024
Diagnosed : 27 Jun 2024 - Don Baldridge

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)

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Report Id: GARSEA [WUSCAR] 06221074 (Generated: 06/27/2024 20:45:30) Rev: 1

Submitted By: Stoneway Concrete - Seattle - Jesse Patterson