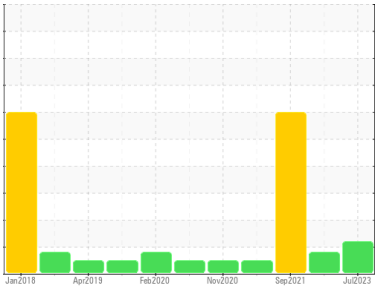
PROBLEM SUMMARY

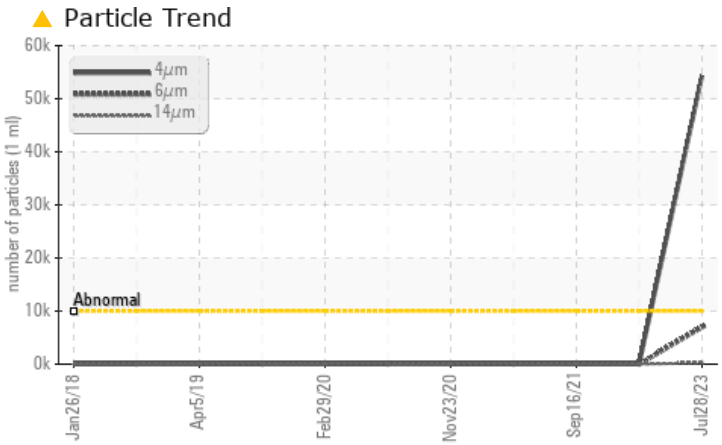
Sample Rating Trend



ISO

Area
Stoneway Concrete Renton
Machine Id
[Stoneway Concrete Renton] 10-497
Component
Transmission (Auto)
Fluid
BP AUTRAN SYN 295 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	MARGINAL	SEVERE
Particles >4µm		ASTM D7647	>10000	▲ **54342**	22	24
Particles >6µm		ASTM D7647	>2500	▲ **6966**	18	21
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ **23/20/15**	---	---

Customer Id: GARSEA
Sample No.: PE0002228
Lab Number: 05922794
Test Package: CONST

To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

24 May 2022 Diag: Wes Davis

WEAR

We recommend an early resample to monitor this condition.Aluminum ppm levels are marginal. All other component wear rates are normal. There is no indication of any contamination in the fluid. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

view report

16 Sep 2021 Diag: Wes Davis

WEAR

We recommend that you drain the fluid from the component if this has not already been done. We recommend an early resample to monitor this condition.Aluminum ppm levels are severe. Torque converter wear is indicated. There is no indication of any contamination in the fluid. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

view report

14 May 2021 Diag: Wes Davis

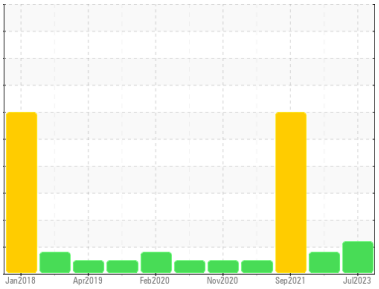
NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the fluid. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Area
Stoneway Concrete Renton
Machine Id
[Stoneway Concrete Renton] 10-497
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
All component wear rates are normal.

Contamination
There is a moderate amount of silt (particulates < 6 microns in size) present in the fluid.

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PE0002228**	PE12230685	PE12292757
Sample Date		Client Info		**28 Jul 2023**	24 May 2022	16 Sep 2021
Machine Age	mls	Client Info		**111825**	100301	0
Oil Age	mls	Client Info		**111825**	100301	0
Oil Changed		Client Info		**N/A**	Not Changd	Not Changd
Sample Status				**ABNORMAL**	MARGINAL	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	**26**	---	---
Iron	ppm	ASTM D5185m	>160	**95**	90	85
Chromium	ppm	ASTM D5185m	>5	**0**	0	0
Nickel	ppm	ASTM D5185m	>5	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m	>5	**0**	<1	<1
Aluminum	ppm	ASTM D5185m	>50	**70**	▲ 75	⬢ 67
Lead	ppm	ASTM D5185m	>50	**33**	32	35
Copper	ppm	ASTM D5185m	>225	**27**	28	27
Tin	ppm	ASTM D5185m	>10	**6**	0	6
Antimony	ppm	ASTM D5185m		**---**	0	0
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**0**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**10**	12	12
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**1**	---	---
Magnesium	ppm	ASTM D5185m		**0**	0	0
Calcium	ppm	ASTM D5185m		**28**	31	30
Phosphorus	ppm	ASTM D5185m		**170**	181	183
Zinc	ppm	ASTM D5185m		**15**	23	23
Sulfur	ppm	ASTM D5185m		**291**	---	---

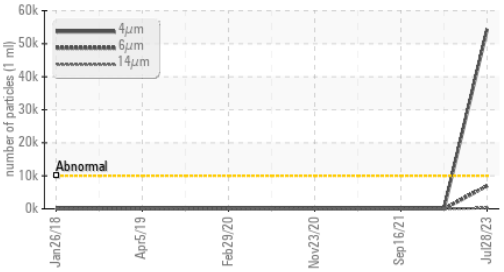
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	**11**	10	10
Sodium	ppm	ASTM D5185m		**8**	6	7
Potassium	ppm	ASTM D5185m	>20	**<1**	1	1

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ **54342**	22	24
Particles >6µm		ASTM D7647	>2500	▲ **6966**	18	21
Particles >14µm		ASTM D7647	>320	**231**	13	15
Particles >21µm		ASTM D7647	>80	**60**	---	---
Particles >38µm		ASTM D7647	>20	**2**	---	---
Particles >71µm		ASTM D7647	>4	**0**	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ **23/20/15**	---	---

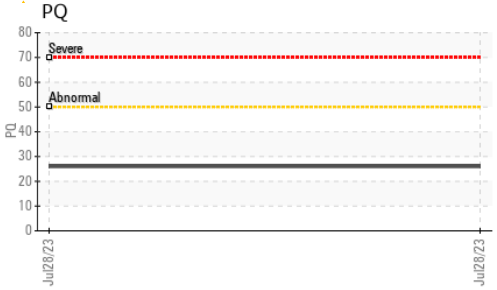
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.45**	0.50	0.95

OIL ANALYSIS REPORT

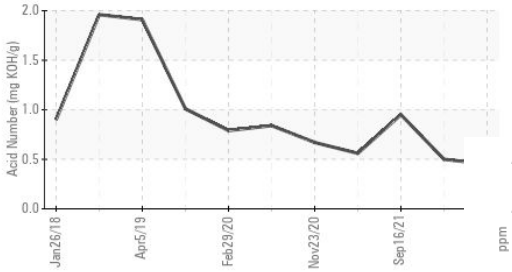
Particle Trend



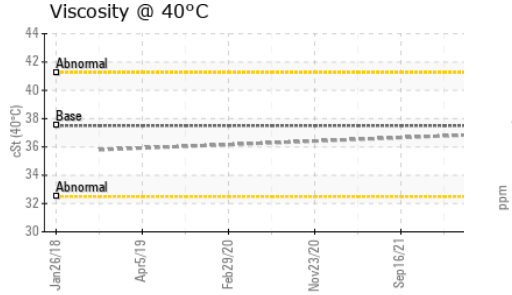
PQ



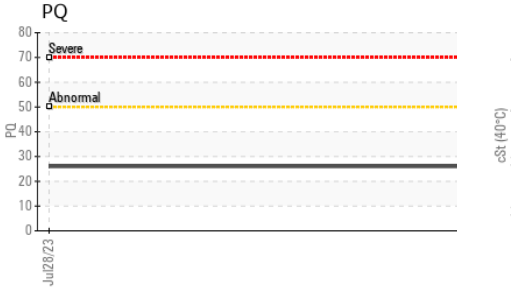
Acid Number



Viscosity @ 40°C

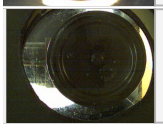


PQ



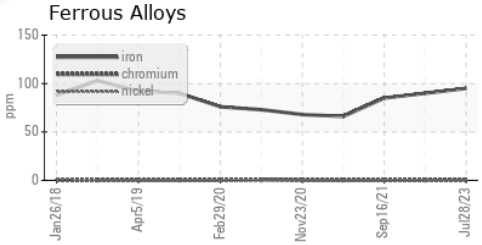
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	**NONE**	---	---
Debris	scalar	*Visual	NONE	**NONE**	---	---
Sand/Dirt	scalar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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	37.5	**36.9**	---	---

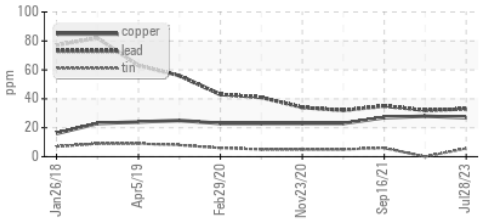
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

GRAPHS

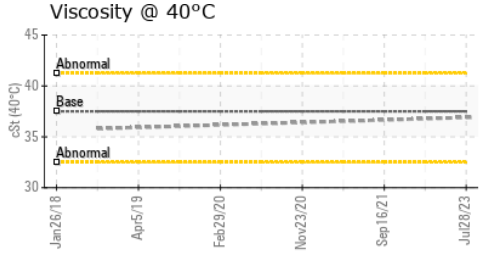
Ferrous Alloys



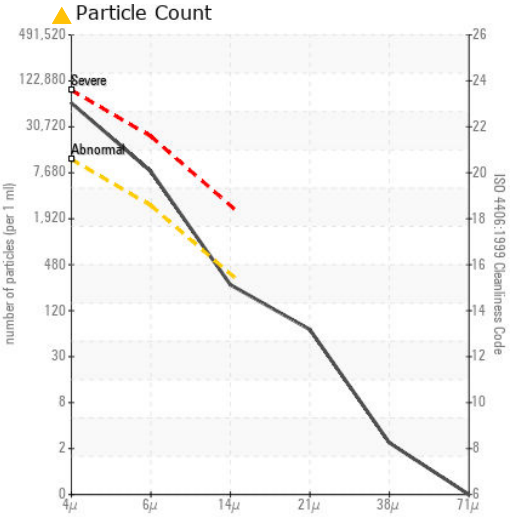
Non-ferrous Metals



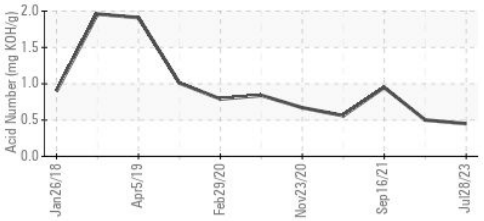
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PE0002228 **Received** : 11 Aug 2023
Lab Number : 05922794 **Diagnosed** : 14 Aug 2023
Unique Number : 10602741 **Diagnostician** : Doug Bogart
Test Package : CONST (Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN)

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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US 98108
Contact: Tony
oilsamples@gmccinc.com
T:
F:

Report Id: GARSEA [WUSCAR] 05922794 (Generated: 08/14/2023 22:43:14) Rev: 1

Submitted By: Stoneway Concrete - Seattle - Jesse Patterson