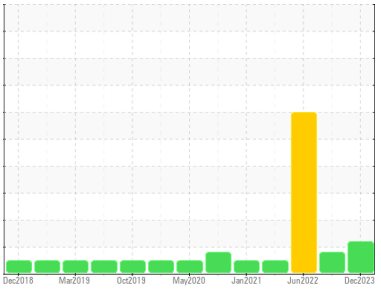
OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Area
Stoneway Concrete Renton
Machine Id
[Stoneway Concrete Renton] 10-526
Component
Transmission (Auto)
Fluid
BP AUTRAN SYN 295 (--- GAL)

DIAGNOSIS

Recommendation
We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear
All component wear rates are normal for time on oil.

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

Fluid Condition
The AN level is acceptable for this fluid. The condition of the fluid is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PE0002066**	PE0001306	PE12230654
Sample Date		Client Info		**22 Dec 2023**	04 May 2023	20 Jun 2022
Machine Age	mls	Client Info		**93052**	82787	72790
Oil Age	mls	Client Info		**93052**	82787	72790
Oil Changed		Client Info		**N/A**	N/A	Not Changd
Sample Status				**ABNORMAL**	ATTENTION	SEVERE

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	**18**	20	---
Iron	ppm	ASTM D5185m	>160	**58**	68	58
Chromium	ppm	ASTM D5185m	>5	**<1**	0	0
Nickel	ppm	ASTM D5185m	>5	**6**	<1	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m	>5	**0**	0	<1
Aluminum	ppm	ASTM D5185m	>50	**21**	30	26
Lead	ppm	ASTM D5185m	>50	**79**	120	127
Copper	ppm	ASTM D5185m	>225	**29**	27	24
Tin	ppm	ASTM D5185m	>10	**3**	3	4
Antimony	ppm	ASTM D5185m		**---**	---	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	---

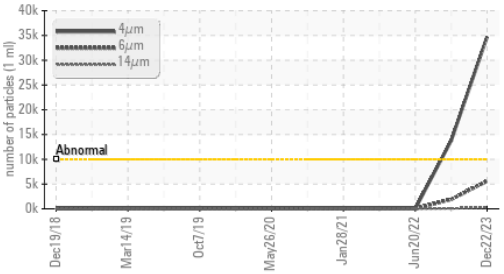
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**29**	11	26
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	<1	0
Manganese	ppm	ASTM D5185m		**<1**	1	---
Magnesium	ppm	ASTM D5185m		**<1**	1	1
Calcium	ppm	ASTM D5185m		**94**	41	34
Phosphorus	ppm	ASTM D5185m		**235**	181	188
Zinc	ppm	ASTM D5185m		**3**	20	28
Sulfur	ppm	ASTM D5185m		**1118**	723	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	**6**	5	4
Sodium	ppm	ASTM D5185m		**1**	6	4
Potassium	ppm	ASTM D5185m	>20	**1**	2	0

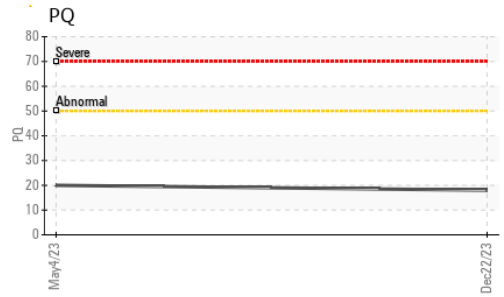
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	**34712**	13766	22
Particles >6µm		ASTM D7647	>2500	**5608**	1906	19
Particles >14µm		ASTM D7647	>320	**249**	80	15
Particles >21µm		ASTM D7647	>80	**66**	18	---
Particles >38µm		ASTM D7647	>20	**5**	0	---
Particles >71µm		ASTM D7647	>4	**0**	0	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	**22/20/15**	21/18/13	---

OIL ANALYSIS REPORT

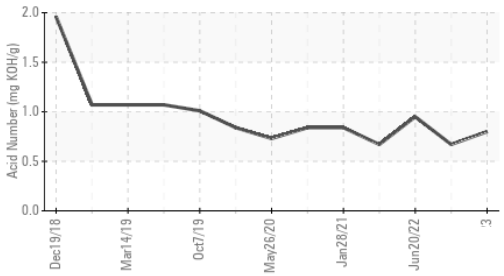
Particle Trend



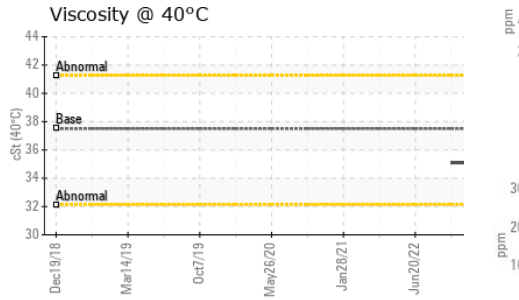
PQ



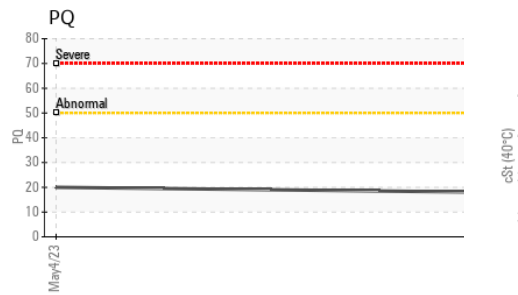
Acid Number



Viscosity @ 40°C



PQ



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.80**	0.67	0.95

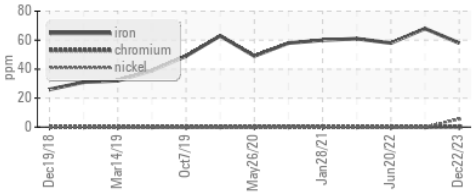
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	37.5	**35.1**	35.1	---

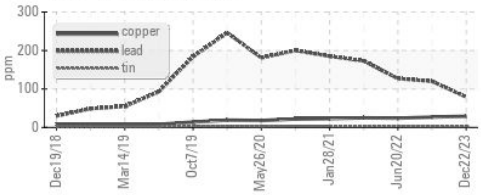
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

GRAPHS

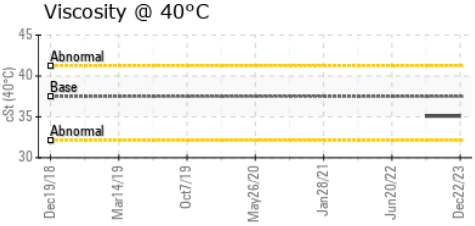
Ferrous Alloys



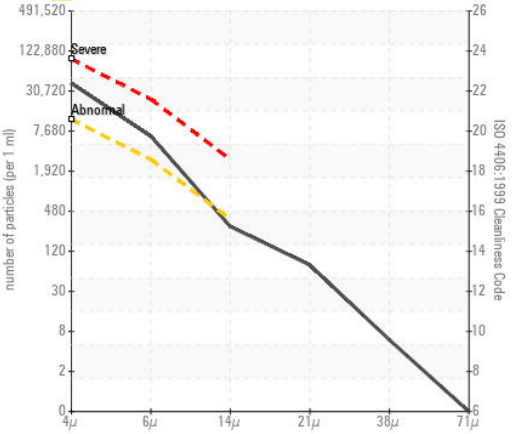
Non-ferrous Metals



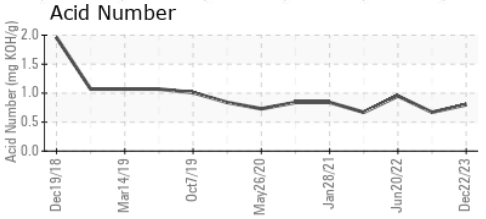
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PE0002066
Lab Number : 06060126
Unique Number : 10831508
Test Package : CONST (Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN)

Recieved : 12 Jan 2024
Diagnosed : 16 Jan 2024
Diagnostician : Don Baldridge

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

Report Id: GARSEA [WUSCAR] 06060126 (Generated: 01/16/2024 12:28:34) Rev: 1

Submitted By: Stoneway Concrete - Seattle - Jesse Patterson