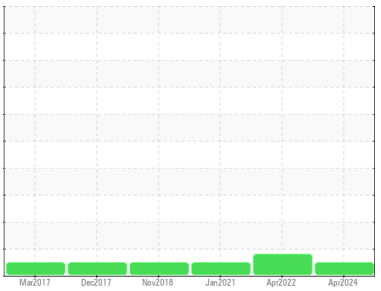
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
GASPEE I (S/N AD207786CRF)
Component
Natural Gas Engine
Fluid
{not provided} (--- 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.

Fluid Condition
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**RP0039513**	RP0025703	RP0016529
Sample Date		Client Info		**19 Apr 2024**	04 Apr 2022	19 Jan 2021
Machine Age	hrs	Client Info		**508**	504	500
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**NORMAL**	ABNORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**4**	3	5
Chromium	ppm	ASTM D5185m	>4	**<1**	<1	<1
Nickel	ppm	ASTM D5185m	>2	**<1**	0	<1
Titanium	ppm	ASTM D5185m		**<1**	<1	<1
Silver	ppm	ASTM D5185m	>3	**0**	0	0
Aluminum	ppm	ASTM D5185m	>9	**3**	2	6
Lead	ppm	ASTM D5185m	>30	**2**	5	2
Copper	ppm	ASTM D5185m	>35	**6**	▲ 118	5
Tin	ppm	ASTM D5185m	>4	**<1**	<1	<1
Antimony	ppm	ASTM D5185m		**---**	---	0
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**<1**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**12**	4	31
Barium	ppm	ASTM D5185m		**<1**	0	0
Molybdenum	ppm	ASTM D5185m		**101**	113	9
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**774**	12	22
Calcium	ppm	ASTM D5185m		**2971**	3451	2944
Phosphorus	ppm	ASTM D5185m		**345**	1198	386
Zinc	ppm	ASTM D5185m		**350**	1474	410

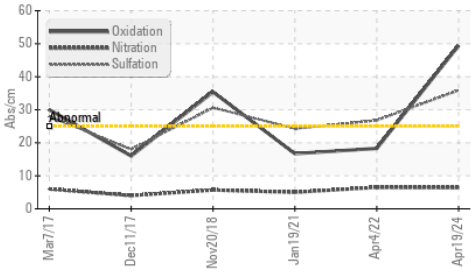
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	**8**	4	9
Sodium	ppm	ASTM D5185m		**0**	<1	3
Potassium	ppm	ASTM D5185m	>20	**2**	2	1
Water	%	ASTM D6304	>0.1	**NEG**	NEG	NEG

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**0.1**	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	**6.4**	6.5	5
Sulfation	Abs/.1mm	*ASTM D7415	>30	**35.9**	26.8	24.3

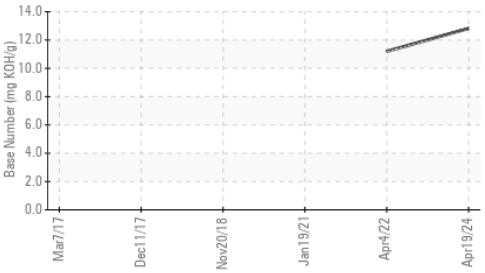
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**49.4**	18.3	16.7
Acid Number (AN)	mg KOH/g	ASTM D8045		**---**	---	0.615
Base Number (BN)	mg KOH/g	ASTM D2896		**12.82**	11.2	---

OIL ANALYSIS REPORT

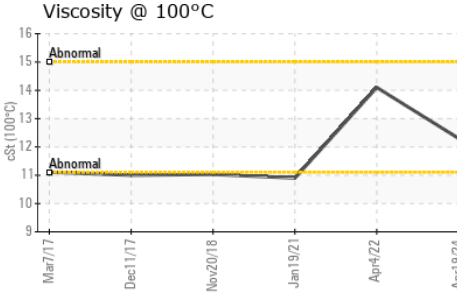
FT-IR (Direct Trend)



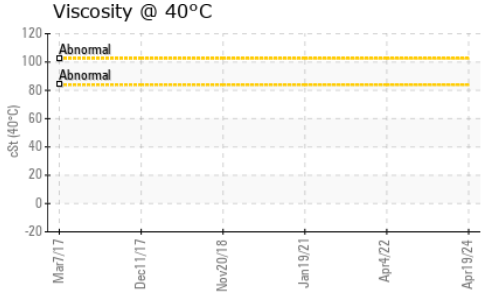
Base Number



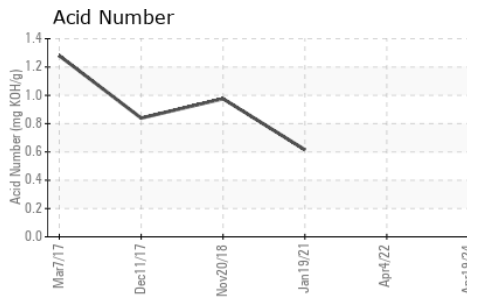
Viscosity @ 100°C



Viscosity @ 40°C



Acid Number

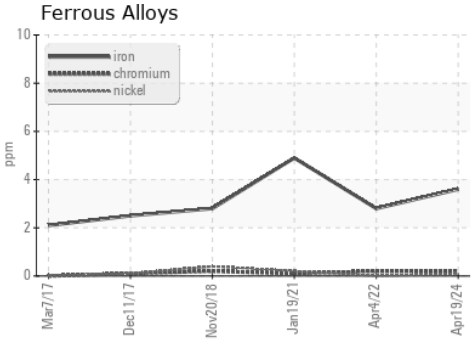


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

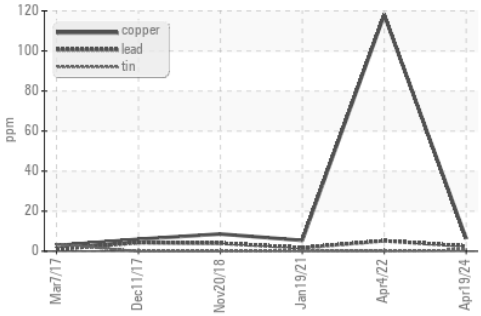
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445		**12.3**	14.1	10.9

GRAPHS

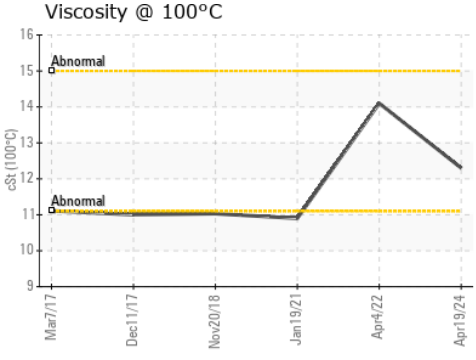
Ferrous Alloys



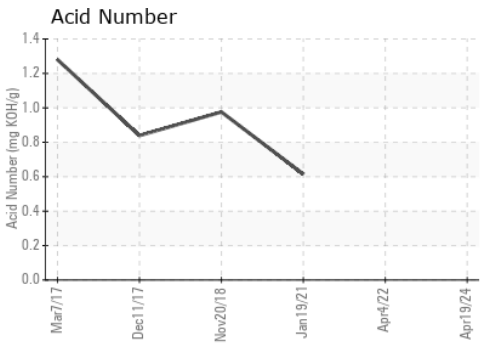
Non-ferrous Metals



Viscosity @ 100°C



Acid Number



ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0039513
Lab Number : 06179517
Unique Number : 11030843
Test Package : IND 2 (Additional Tests: FT-IR, KV100, TBN)

Received : 14 May 2024
Tested : 17 May 2024
Diagnosed : 17 May 2024 - Sean Felton

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)

WARWICK SEWER AUTHORITY
125 ARTHUR DEVINE BLVD
WARWICK, RI
US 02888
Contact: JOHN BROSNAHAN
john.s.brosnahan@warwickri.com
T:
F:

Report Id: WARWARRI [WUSCAR] 06179517 (Generated: 05/17/2024 10:09:54) Rev: 1
Contact/Location: JOHN BROSNAHAN - WARWARRI