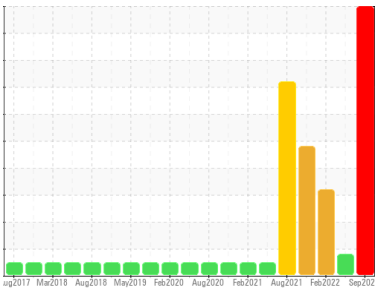
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Area
97
Machine Id
[97] A97 Fan 901
Component
Center Gearbox
Fluid
GEAR LIFE 150 (5 GAL)

DIAGNOSIS

Recommendation
We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Wear
Gear wear is indicated.

Contamination
Appearance is milky. There is a high concentration of water present in the oil.

Fluid Condition
The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**HPL0001167**	HPL0000172	HPL0000084
Sample Date		Client Info		**01 Sep 2022**	16 May 2022	23 Feb 2022
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**1440**	2660	350
Oil Changed		Client Info		**Changed**	Not Changd	Not Changd
Sample Status				**SEVERE**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	**583**	449	265
Chromium	ppm	ASTM D5185m	>10	**4**	4	2
Nickel	ppm	ASTM D5185m		**0**	<1	2
Titanium	ppm	ASTM D5185m		**<1**	<1	<1
Silver	ppm	ASTM D5185m		**<1**	0	1
Aluminum	ppm	ASTM D5185m	>25	**10**	17	10
Lead	ppm	ASTM D5185m	>50	**5**	7	5
Copper	ppm	ASTM D5185m	>200	**2**	2	<1
Tin	ppm	ASTM D5185m	>10	**0**	<1	0
Antimony	ppm	ASTM D5185m		**---**	---	18
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**<1**	0	0

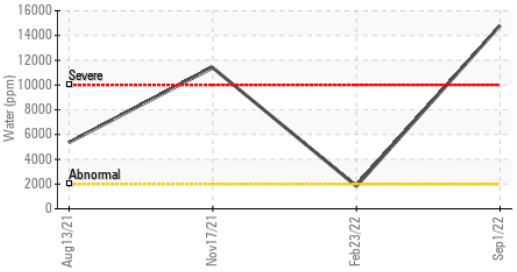
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**3**	2	<1
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**<1**	<1	<1
Manganese	ppm	ASTM D5185m		**6**	5	4
Magnesium	ppm	ASTM D5185m		**17**	45	28
Calcium	ppm	ASTM D5185m		**56**	96	62
Phosphorus	ppm	ASTM D5185m		**182**	154	153
Zinc	ppm	ASTM D5185m		**2**	0	0
Sulfur	ppm	ASTM D5185m		**19677**	17938	17854

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**26**	44	20
Sodium	ppm	ASTM D5185m		**2**	13	10
Potassium	ppm	ASTM D5185m	>20	**4**	3	4
Water	%	ASTM D6304	>0.2	**1.48**	---	0.183
ppm Water	ppm	ASTM D6304	>2000	**14800**	---	1830

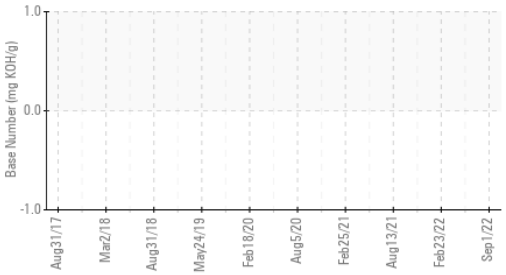
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.53**	0.25	0.40

OIL ANALYSIS REPORT

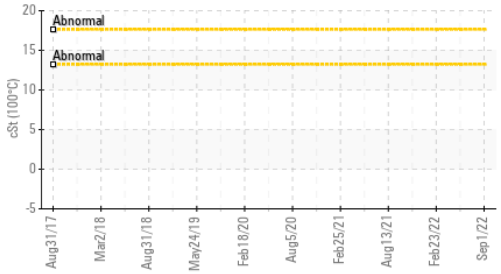
Water (KF)



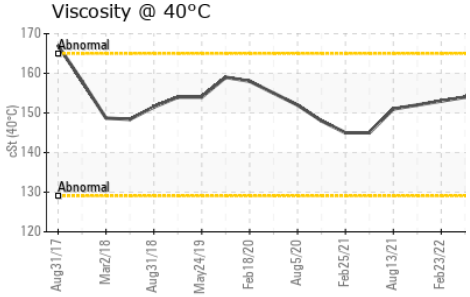
Base Number



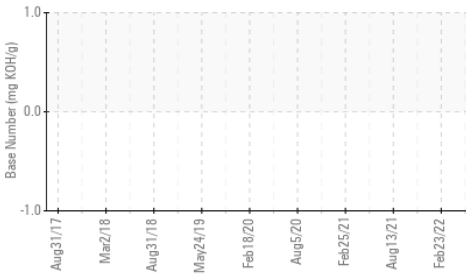
Viscosity @ 100°C



Viscosity @ 40°C



Base Number



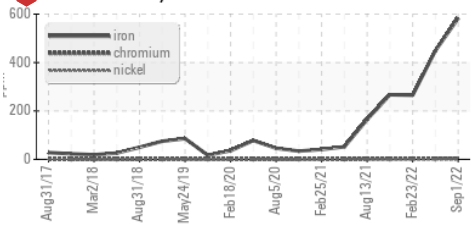
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**MODER**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	▲ **MILKY**	NORML	▲ MILKY
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	⬢ **0.2%**	NEG	0.2%
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**157**	154	153

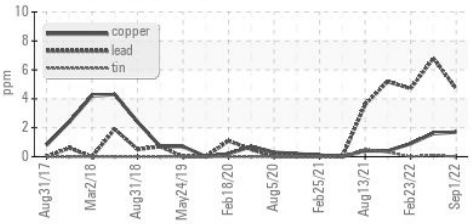
SAMPLE IMAGES				current	history1	history2
Color				*no image*	*no image*	*no image*
Bottom				*no image*	*no image*	*no image*

GRAPHS

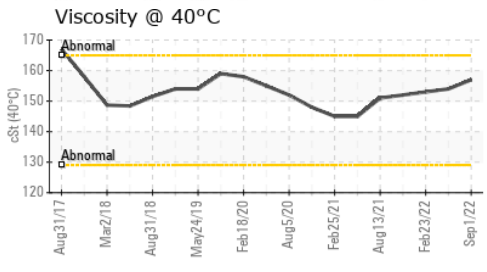
Ferrous Alloys



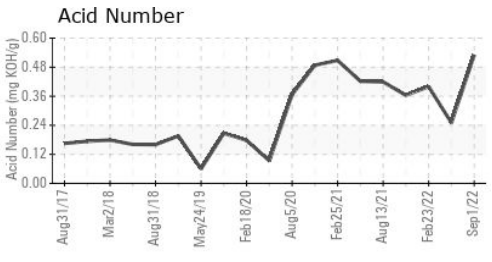
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : HPL0001167 **Recieved** : 07 Sep 2022
Lab Number : 05636188 **Diagnosed** : 09 Sep 2022
Unique Number : 10125718 **Diagnostician** : Don Baldridge
Test Package : MOB 2 (Additional Tests: FT-IR, KF, KV100, PrtCount, TBN)

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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