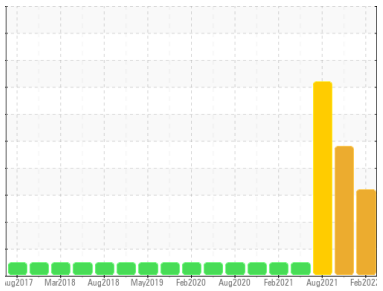
OIL ANALYSIS REPORT

Sample Rating Trend



WATER

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

DIAGNOSIS

Recommendation
No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

Wear
Gear wear is indicated.

Contamination
Appearance is milky. There is a trace of moisture present in the oil.

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**HPL0000084**	HPL0000073	HPL0000045
Sample Date		Client Info		**23 Feb 2022**	17 Nov 2021	13 Aug 2021
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**350**	200	50
Oil Changed		Client Info		**Not Changd**	Not Changd	Changed
Sample Status				**ABNORMAL**	SEVERE	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	▲ **265**	▲ 267	165
Chromium	ppm	ASTM D5185m	>10	**2**	2	1
Nickel	ppm	ASTM D5185m		**2**	<1	<1
Titanium	ppm	ASTM D5185m		**<1**	<1	<1
Silver	ppm	ASTM D5185m		**1**	<1	<1
Aluminum	ppm	ASTM D5185m	>25	**10**	11	8
Lead	ppm	ASTM D5185m	>50	**5**	5	4
Copper	ppm	ASTM D5185m	>200	**<1**	<1	<1
Tin	ppm	ASTM D5185m	>10	**0**	<1	<1
Antimony	ppm	ASTM D5185m		**18**	30	35
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	<1	<1

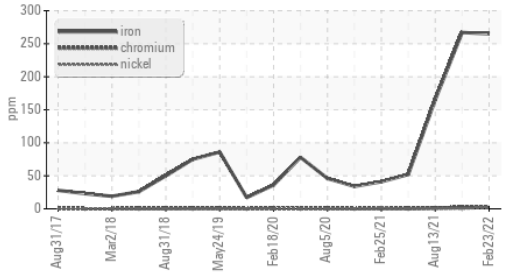
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**<1**	20	20
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**<1**	<1	<1
Manganese	ppm	ASTM D5185m		**4**	3	2
Magnesium	ppm	ASTM D5185m		**28**	24	16
Calcium	ppm	ASTM D5185m		**62**	80	49
Phosphorus	ppm	ASTM D5185m		**153**	146	152
Zinc	ppm	ASTM D5185m		**0**	<1	3
Sulfur	ppm	ASTM D5185m		**17854**	19578	17519

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**20**	30	20
Sodium	ppm	ASTM D5185m		**10**	4	1
Potassium	ppm	ASTM D5185m	>20	**4**	2	1
Water	%	ASTM D6304	>0.2	▲ **0.183**	⬢ 1.14	▲ 0.536
ppm Water	ppm	ASTM D6304	>2000	▲ **1830**	⬢ 11400	▲ 5360

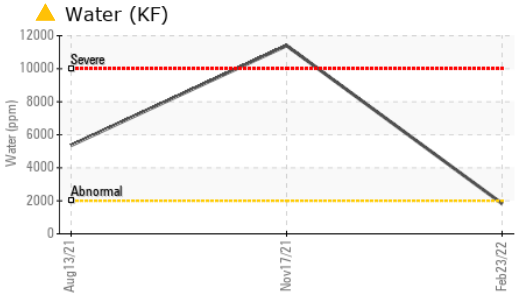
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.40**	0.364	0.419

OIL ANALYSIS REPORT

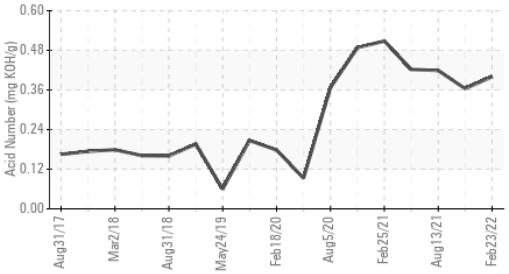
Ferrous Alloys



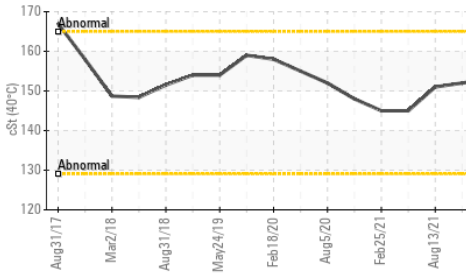
Water (KF)



Acid Number



Viscosity @ 40°C



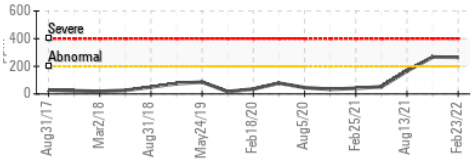
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	▲ **MILKY**	▲ MILKY	▲ HAZY
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	**0.2%**	⬢ 0.2%	0.2%
Free Water	scalar	*Visual		**NEG**	NEG	⬢ 1.0

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**153**	152	151

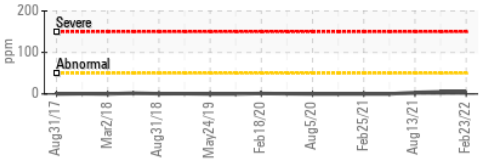
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

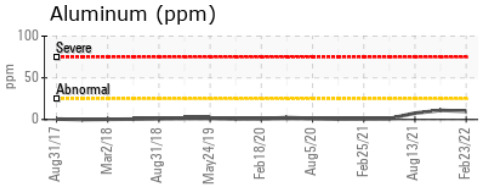
Iron (ppm)



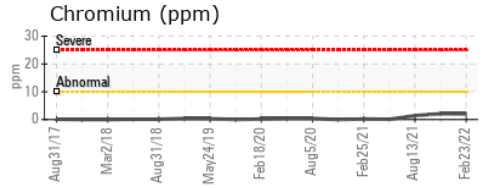
Lead (ppm)



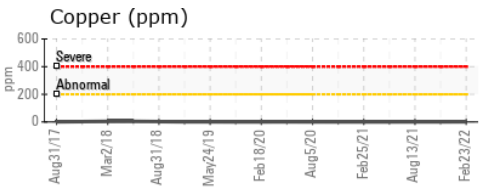
Aluminum (ppm)



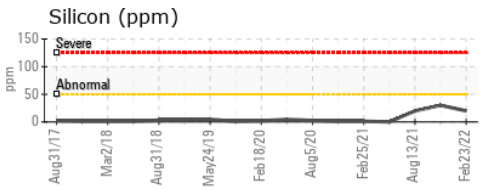
Chromium (ppm)



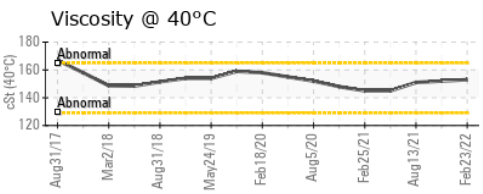
Copper (ppm)



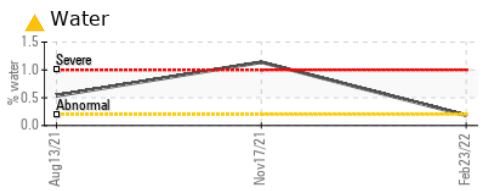
Silicon (ppm)



Viscosity @ 40°C



Water



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : HPL0000084 **Recieved** : 01 Mar 2022
Lab Number : 05480543 **Diagnosed** : 03 Mar 2022
Unique Number : 9869757 **Diagnostician** : Jonathan Hester
Test Package : MOB 2 (Additional Tests: KF)

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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