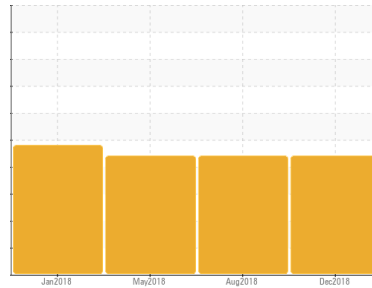




PROBLEM SUMMARY

Area
[10117491]
 Machine Id
GARDNER DENVER C-8 (S/N S521766)
 Component
Compressor
 Fluid
GARDNER DENVER AEON 9000 TH (--- GAL)

Sample Rating Trend

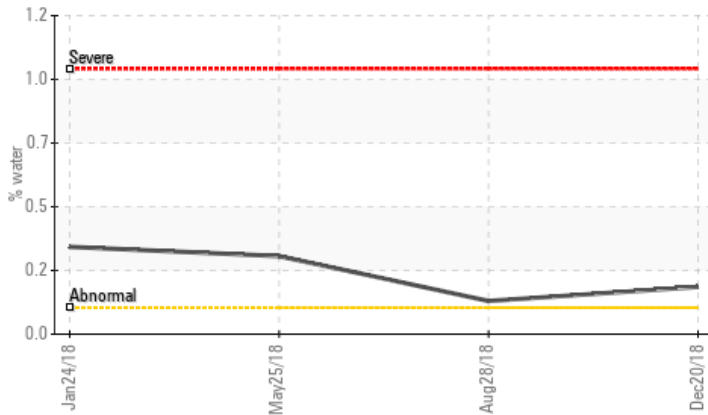


WATER



COMPONENT CONDITION SUMMARY

▲ Water



RECOMMENDATION

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Water	%	ASTM D6304	>0.1	▲ 0.178	▲ 0.125	▲ 0.294
ppm Water	ppm	ASTM D6304	>1000	▲ 1780	▲ 1250	▲ 2940
Debris	scalar	*Visual	NONE	▲ MODER	▲ MODER	▲ MODER
Appearance	scalar	*Visual	NORML	▲ HAZY	▲ LAYRD	▲ HAZY
Free Water	scalar	*Visual		▲ 2.0	▲ 2.0	▲ 5.0

Customer Id: WESLONWC
 Sample No.: WCI2335322
 Lab Number: 04642025
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Water Drain-off	MISSED	Apr 18 2019	?	We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid.
Resample	MISSED	Apr 18 2019	?	We recommend an early resample to monitor this condition.
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS

28 Aug 2018 Diag: Jonathan Hester

WATER



We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Free water present. There is a light concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid.

view report



25 May 2018 Diag: Jonathan Hester

WATER



We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Free water present. There is a light concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid.

view report



24 Jan 2018 Diag: Doug Bogart

WATER



We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of particulates present in the oil. There is a light concentration of water present in the oil. Free water present. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



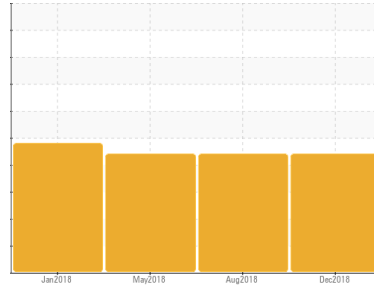


OIL ANALYSIS REPORT

Sample Rating Trend

WATER

Area
[10117491]
 Machine Id
GARDNER DENVER C-8 (S/N S521766)
 Component
Compressor
 Fluid
GARDNER DENVER AEON 9000 TH (--- GAL)



DIAGNOSIS

Recommendation

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

All component wear rates are normal.

Contamination

Appearance is hazy. Free water present. There is a light concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION

	method	limit/base	current	history 1	history 2
Sample Number	Client Info		WCI2335322	WCI2288186	WCI2333178
Sample Date	Client Info		20 Dec 2018	28 Aug 2018	25 May 2018
Machine Age	hrs	Client Info	12121	9376	6782
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m >50	2	1	3
Chromium	ppm	ASTM D5185m >10	<1	0	0
Nickel	ppm	ASTM D5185m	<1	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	0	<1	<1
Lead	ppm	ASTM D5185m >25	<1	1	2
Copper	ppm	ASTM D5185m >50	2	1	<1
Tin	ppm	ASTM D5185m >15	<1	0	0
Antimony	ppm	ASTM D5185m	<1	2	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	<1	2	<1
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	<1
Manganese	ppm	ASTM D5185m	0	<1	<1
Magnesium	ppm	ASTM D5185m	0	1	0
Calcium	ppm	ASTM D5185m	0	<1	0
Phosphorus	ppm	ASTM D5185m	776	708	694
Zinc	ppm	ASTM D5185m	1	3	2
Sulfur	ppm	ASTM D5185m	54	44	11

CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m >25	<1	<1	<1
Sodium	ppm	ASTM D5185m	0	0	0
Potassium	ppm	ASTM D5185m >20	0	<1	<1
Water	%	ASTM D6304 >0.1	▲ 0.178	▲ 0.125	▲ 0.294
ppm Water	ppm	ASTM D6304 >1000	▲ 1780	▲ 1250	▲ 2940

FLUID CLEANLINESS

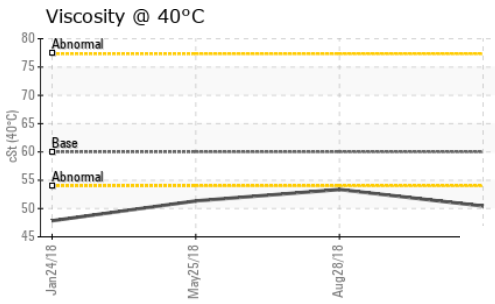
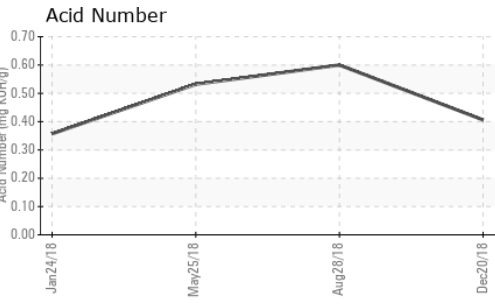
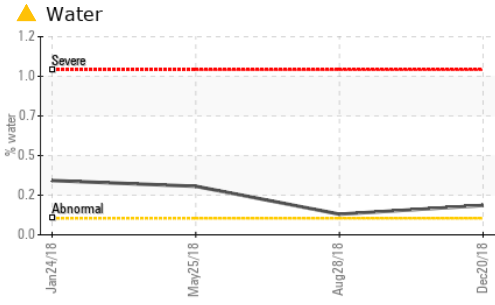
	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647	>10000	---	---	---
Particles >6µm	ASTM D7647	>2500	---	---	---
Particles >14µm	ASTM D7647	>320	---	---	---
Particles >21µm	ASTM D7647	>80	---	---	---
Particles >38µm	ASTM D7647	>20	---	---	---
Particles >71µm	ASTM D7647	>4	---	---	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	---	---	---

FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.406	0.600	0.532



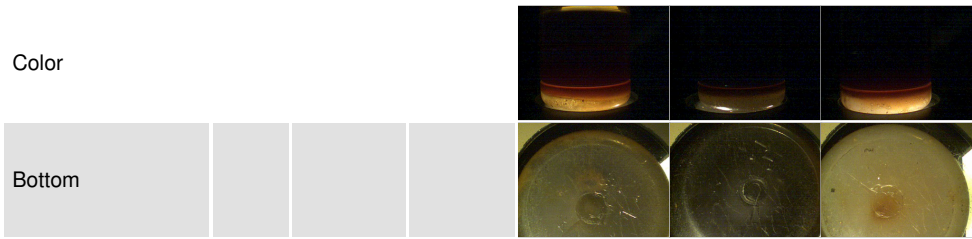
OIL ANALYSIS REPORT



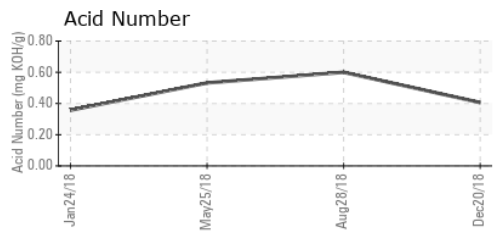
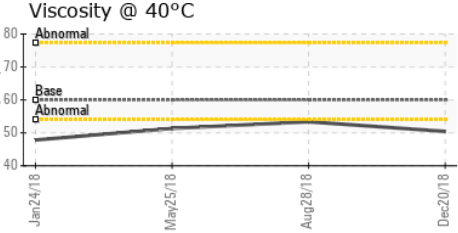
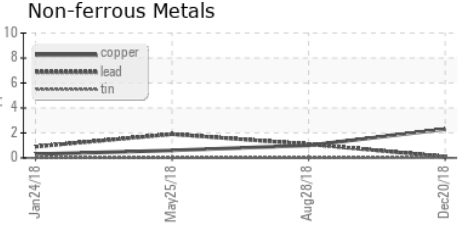
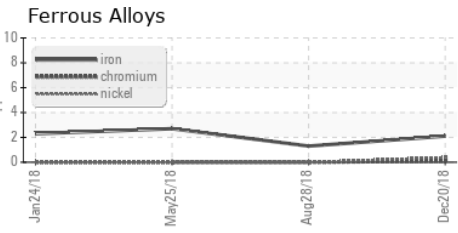
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	▲ HAZY	▲ LAYRD
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	0.2%	0.1%
Free Water	scalar	*Visual		▲ 2.0	▲ 5.0

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	60.01	50.44	53.36

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC12335322 **Received** : 01 Feb 2019
Lab Number : 04642025 **Diagnosed** : 05 Feb 2019
Unique Number : 8483461 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, PrtCount)

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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