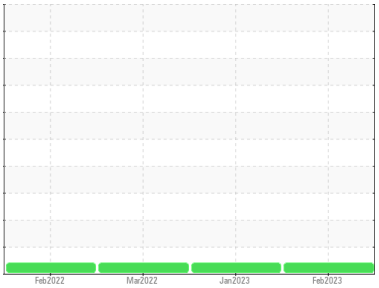
PROBLEM SUMMARY

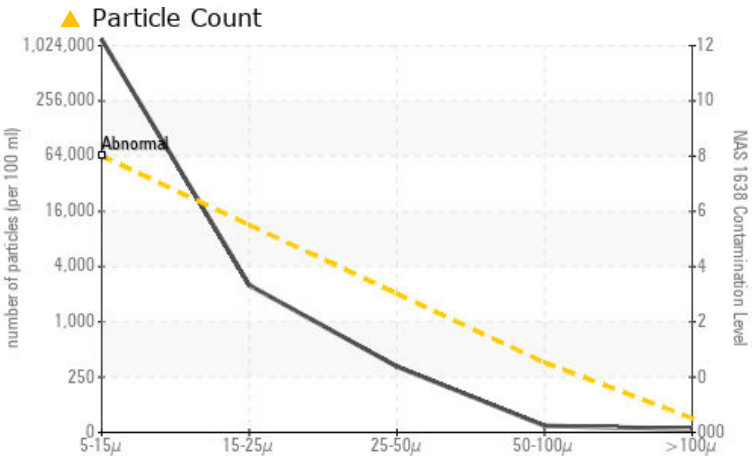
Sample Rating Trend



ISO

Machine Id
SHOP HPU
Component
Hydraulic System
Fluid
CONOCO MEGAFLOW AW 32 (1000 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL
Particles 5-15µm	count	*NAS 1638	>64000	▲ **1194317**	▲ 60006	▲ 190148

Customer Id: SEASLI
Sample No.: WC0668245
Lab Number: 05781218
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
Change Filter	---	---	?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.
Filter Fluid	---	---	?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

HISTORICAL DIAGNOSIS

12 Jan 2023 Diag: Angela Borella

ISO

We advise that you perform a filter service per OEM, and use off-line filtration to improve the cleanliness of the system fluid. Resample at the next service interval to monitor. Please note that this is a corrected copy for data entry updates.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target SAE AS4059 (replaces NAS 1638) cleanliness code. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

24 Mar 2022 Diag: Angela Borella

ISO

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view report

07 Feb 2022 Diag: Doug Bogart

ISO

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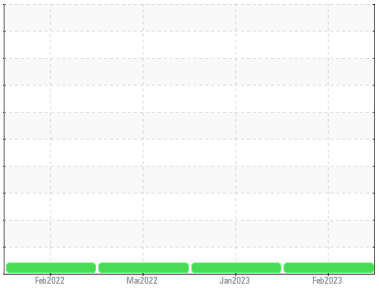
view report

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Machine Id
SHOP HPU
Component
Hydraulic System
Fluid
CONOCO MEGAFLOW AW 32 (1000 GAL)

DIAGNOSIS

Recommendation
We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is a high amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target SAE AS4059 (replaces NAS 1638) cleanliness code.

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		**WC0668245**	WC0668244	WC0668252
Sample Date		Client Info		**28 Feb 2023**	12 Jan 2023	24 Mar 2022
Machine Age	wks	Client Info		**0**	0	0
Oil Age	wks	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	history1	history2
Iron	ppm	ASTM D5185m	>20	**2**	<1	<1
Chromium	ppm	ASTM D5185m	>20	**0**	0	0
Nickel	ppm	ASTM D5185m	>20	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**0**	0	<1
Lead	ppm	ASTM D5185m	>20	**0**	0	<1
Copper	ppm	ASTM D5185m	>20	**4**	4	4
Tin	ppm	ASTM D5185m	>20	**0**	<1	0
Antimony	ppm	ASTM D5185m		**---**	---	---
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

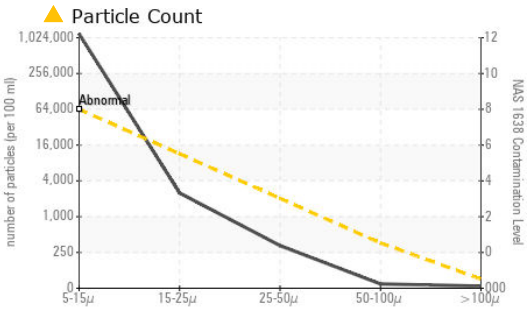
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**0**	0	0
Barium	ppm	ASTM D5185m	0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	0	**2**	1	0
Manganese	ppm	ASTM D5185m		**0**	0	0
Magnesium	ppm	ASTM D5185m	0	**17**	17	0
Calcium	ppm	ASTM D5185m	80	**72**	72	59
Phosphorus	ppm	ASTM D5185m	365	**299**	329	399
Zinc	ppm	ASTM D5185m	500	**376**	380	445
Sulfur	ppm	ASTM D5185m	1000	**928**	982	844

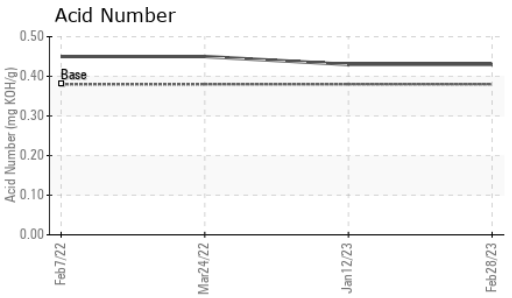
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**<1**	<1	<1
Sodium	ppm	ASTM D5185m		**<1**	<1	<1
Potassium	ppm	ASTM D5185m	>20	**0**	0	<1

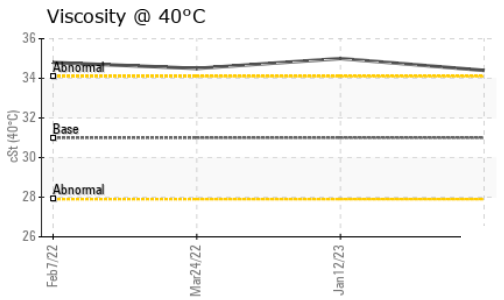
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles 5-15µm	count	*NAS 1638	>64000	▲ **1194317**	▲ 60006	▲ 190148
Particles 15-25µm	count	*NAS 1638	>11400	**2508**	645	4345
Particles 25-50µm	count	*NAS 1638	>2025	**326**	109	1003
Particles 50-100µm	count	*NAS 1638	>360	**30**	0	86
Particles >100µm	count	*NAS 1638	>64	**15**	0	0
NAS 1638	Class	*NAS 1638	>8	**>12**	8	▲ 10

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.38	**0.43**	0.43	0.45

OIL ANALYSIS REPORT



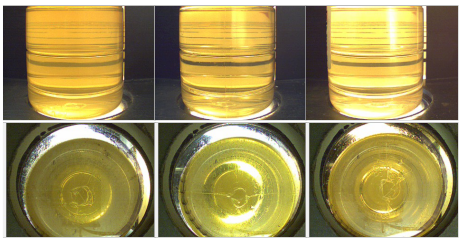




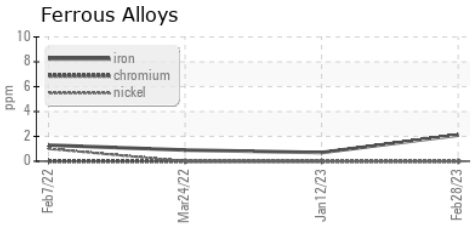
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	VLITE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

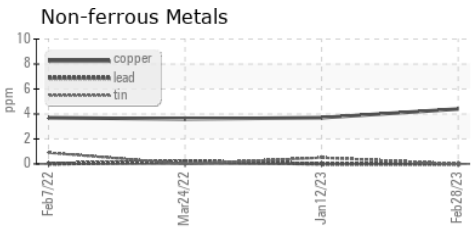
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	31.0	**34.4**	35.0	34.5

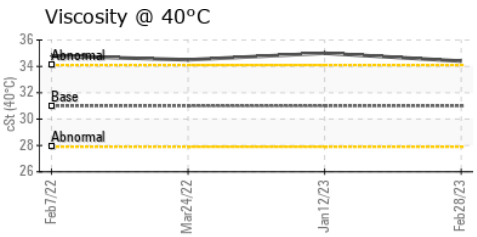
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

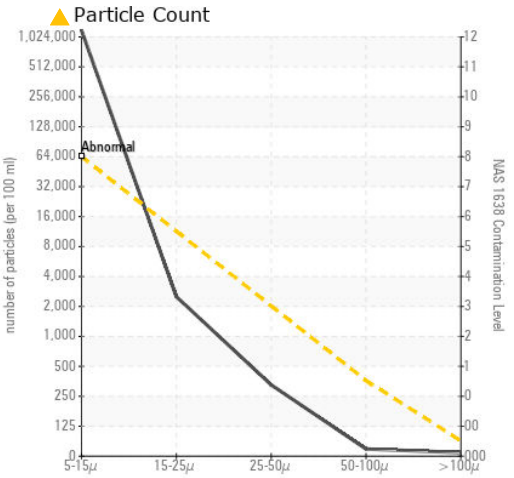


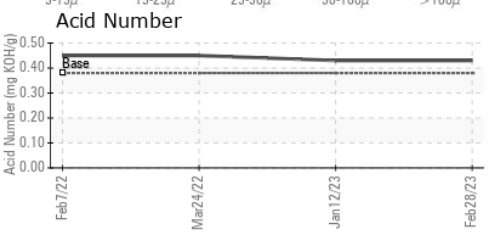
GRAPHS











Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0668245 **Received** : 02 Mar 2023
Lab Number : 05781218 **Diagnosed** : 03 Mar 2023
Unique Number : 10360888 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: PrtCountNAS)

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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