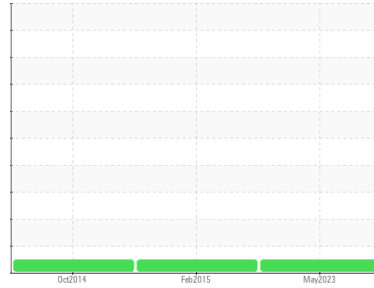




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
WESTINGHOUSE U3 THRUST TUB

Component
Thrust Bearing

Fluid
CHEVRON GST OIL ISO 68 (2200 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 component. The amount and size of particulates present in the system is acceptable.

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		WCI2268891	WCI2268909	WCI2268944
Sample Date	Client Info		10 May 2023	10 Feb 2015	15 Oct 2014
Machine Age	yrs	Client Info	3	12	18
Oil Age	yrs	Client Info	3	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>2	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>85	0	5	0
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	>40	<1	0	0
Lead	ppm	ASTM D5185m	>60	0	0	0
Copper	ppm	ASTM D5185m	>7	0	<1	0
Tin	ppm	ASTM D5185m	>40	<1	<1	<1
Antimony	ppm	ASTM D5185m		---	0	0
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	<1	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		0	0	0
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		680	477	518

CONTAMINANTS

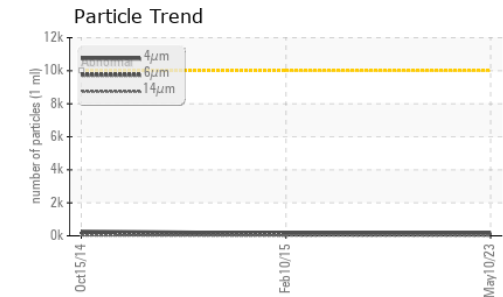
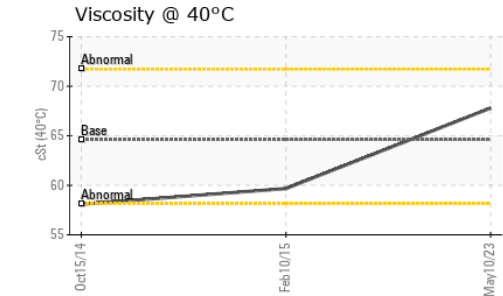
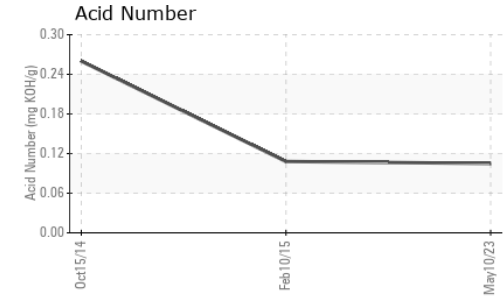
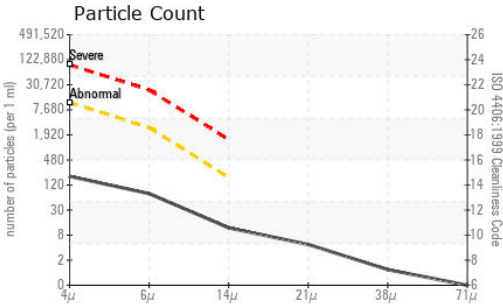
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>20	0	<1	<1
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	<1

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	171	157.	280
Particles >6µm	ASTM D7647	>2500	66	85.	152
Particles >14µm	ASTM D7647	>160	10	14.	26
Particles >21µm	ASTM D7647	>40	4	4.	8
Particles >38µm	ASTM D7647	>10	1	0.	1
Particles >71µm	ASTM D7647	>3	0	0.	0
Oil Cleanliness	ISO 4406 (c)	>20/18/14	15/13/10	14/14/11	15/14/12



OIL ANALYSIS REPORT



FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.105	0.108	0.260

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	67.8	59.67	58.09

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



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC12268891 **Received** : 19 May 2023
Lab Number : 05852419 **Tested** : 23 May 2023
Unique Number : 10481774 **Diagnosed** : 23 May 2023 - Angela Borella
Test Package : IND 2 (Additional Tests: FilterPatch, PrtCount)

US ARMY CORPS OF ENGINEERS - MILLERS FERRY POWERHOUSE
 1606 POWERHOUSE RD
 CAMDEN, AL
 US 36726
 Contact: RUSSELL RENFROE
 russell.w.renfroe@usace.army.mil

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)

T:
F: