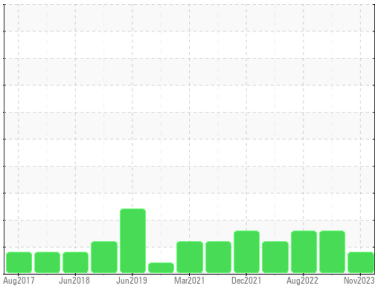
PROBLEM SUMMARY

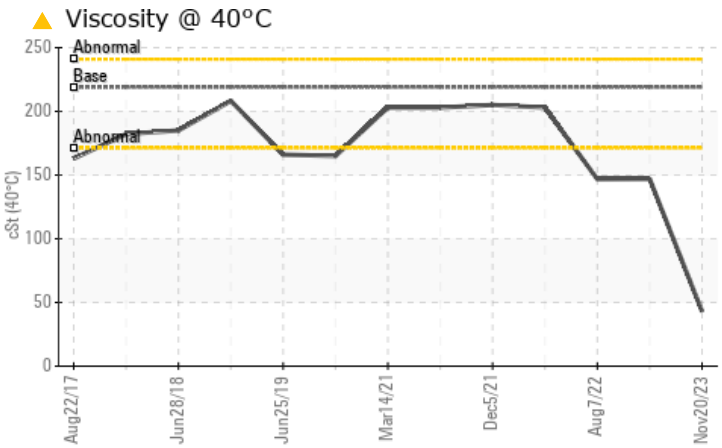
Sample Rating Trend



VISCOSITY

Area
BARRIER DEPARTMENT SAMPLES
Machine Id
DAVIS STAND WEB 12 G
Component
Gearbox
Fluid
TEXACO MEROPA 220 (25 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. 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
Debris	scalar	*Visual	NONE	▲ **MODER**	VLITE	VLITE
Visc @ 40°C	cSt	ASTM D445	219	▲ **43.12**	▲ 147	▲ 146.8

Customer Id: CRYIOW
Sample No.: WC0869570
Lab Number: 06013999
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 recommend you service the filters on this component if applicable.
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS

30 Oct 2022 Diag: Angela Borella

VISCOSITY

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.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. Viscosity of sample indicates oil is within ISO 150 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

view report

07 Aug 2022 Diag: Jonathan Hester

VISCOSITY

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. Viscosity of sample indicates oil is within ISO 150 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

view report

15 Feb 2022 Diag: Doug Bogart

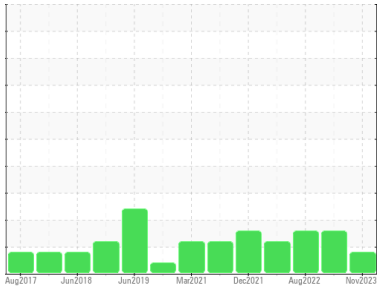
ISO

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. 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



VISCOSITY

Area
BARRIER DEPARTMENT SAMPLES
Machine Id
DAVIS STAND WEB 12 G
Component
Gearbox
Fluid
TEXACO MEROPA 220 (25 GAL)

DIAGNOSIS

Recommendation
We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. 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
Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition
Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0869570**	WC0692842	WC0608637
Sample Date		Client Info		**20 Nov 2023**	30 Oct 2022	07 Aug 2022
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	**NEG**	NEG	NEG

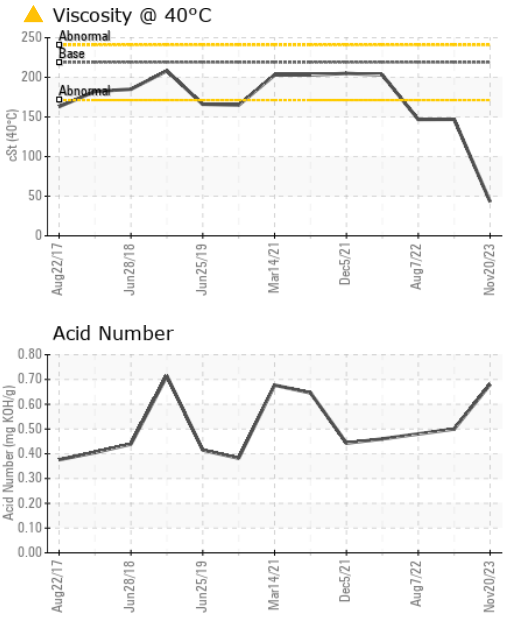
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	**37**	61	53
Chromium	ppm	ASTM D5185m	>15	**<1**	<1	<1
Nickel	ppm	ASTM D5185m	>15	**<1**	0	0
Titanium	ppm	ASTM D5185m		**<1**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**2**	2	2
Lead	ppm	ASTM D5185m	>100	**<1**	1	1
Copper	ppm	ASTM D5185m	>200	**2**	11	10
Tin	ppm	ASTM D5185m	>25	**<1**	<1	0
Antimony	ppm	ASTM D5185m	>5	**---**	---	---
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	**0**	2	4
Barium	ppm	ASTM D5185m	0.5	**4**	0	0
Molybdenum	ppm	ASTM D5185m	1.1	**1**	4	4
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m	0.1	**<1**	4	5
Calcium	ppm	ASTM D5185m	1.6	**0**	7	8
Phosphorus	ppm	ASTM D5185m	159	**111**	179	190
Zinc	ppm	ASTM D5185m	0.5	**0**	19	17
Sulfur	ppm	ASTM D5185m	10342	**4257**	7549	6328

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**3**	7	8
Sodium	ppm	ASTM D5185m		**3**	11	8
Potassium	ppm	ASTM D5185m	>20	**0**	0	1

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	**---**	▲ 303768	▲ 331053
Particles >6µm		ASTM D7647	>5000	**---**	▲ 44331	▲ 43737
Particles >14µm		ASTM D7647	>640	**---**	387	262
Particles >21µm		ASTM D7647	>160	**---**	48	49
Particles >38µm		ASTM D7647	>40	**---**	2	0
Particles >71µm		ASTM D7647	>10	**---**	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	**---**	▲ 25/23/16	▲ 26/23/15

OIL ANALYSIS REPORT



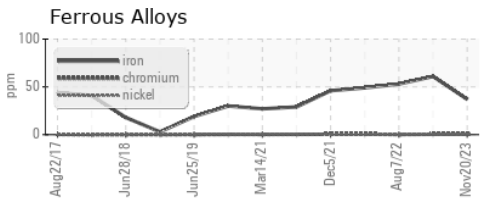
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.68**	0.50	0.48

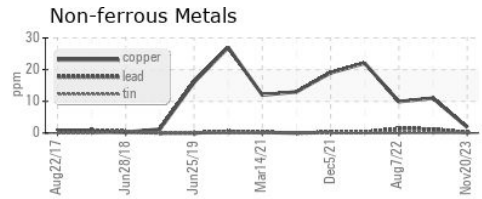
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	VLITE	LIGHT
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	▲ **MODER**	VLITE	VLITE
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	>0.2	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

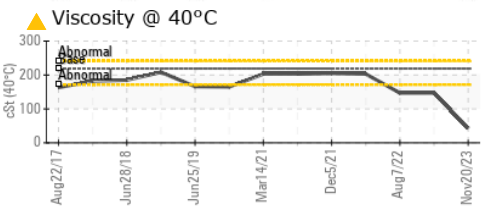
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	219	▲ **43.12**	▲ 147	▲ 146.8

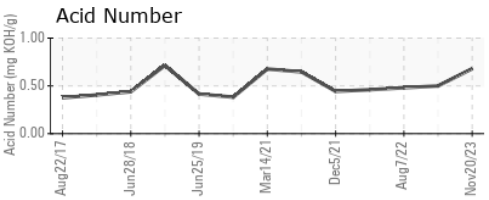
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0869570 **Received** : 21 Nov 2023
Lab Number : 06013999 **Diagnosed** : 30 Nov 2023
Unique Number : 10753143 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: 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)

SEALED AIR CORP - CRYOVAC DIVISION
1301 WEST MAGNOLIA AVE
IOWA PARK, TX
US 76367
Contact: KEVIN KETCHERSID
kevin.a.ketchersid@sealedair.com
T: (940)592-2111
F: (940)592-2513