



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area  
**BARRIER DEPARTMENT SAMPLES**  
 Machine Id  
**LUFKIN/WELEX WEB 04 SD SUBSTRATE (S/N 167-42078)**  
 Component  
**Gearbox**  
 Fluid  
**TEXACO MEROPA 220 (50 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0806374</b>	WC0757249	WC0608689
Sample Date		Client Info		<b>08 Oct 2023</b>	04 Apr 2023	30 Oct 2022
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	ABNORMAL	ATTENTION

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	<b>14</b>	5	22
Chromium	ppm	ASTM D5185m	>15	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>15	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>0</b>	0	0
Lead	ppm	ASTM D5185m	>100	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>200	<b>&lt;1</b>	<1	2
Tin	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

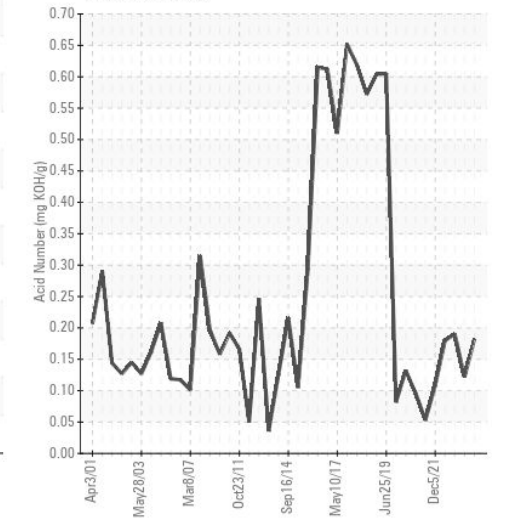
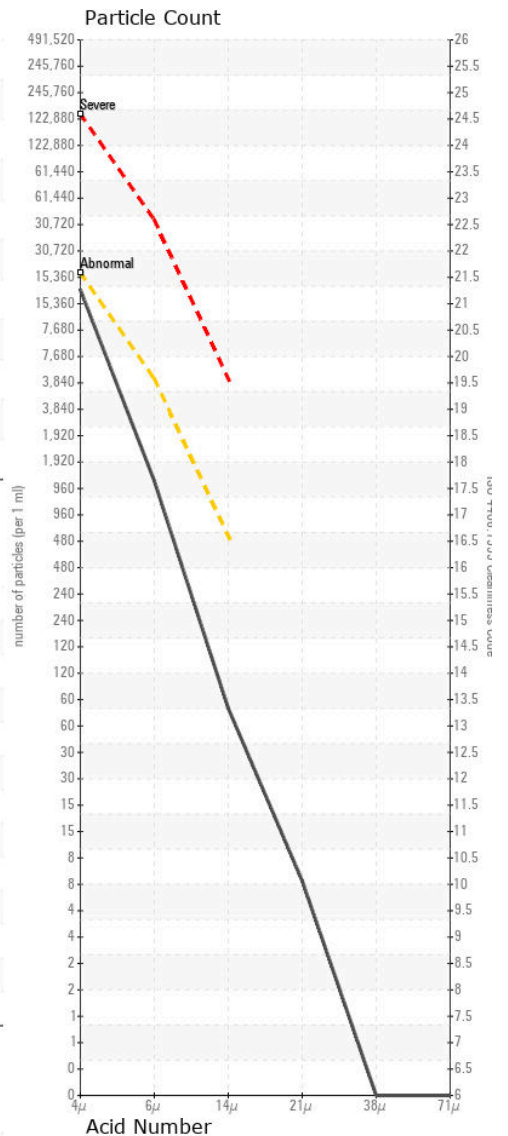
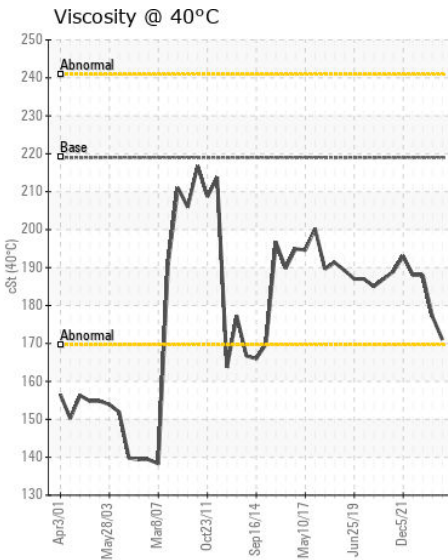
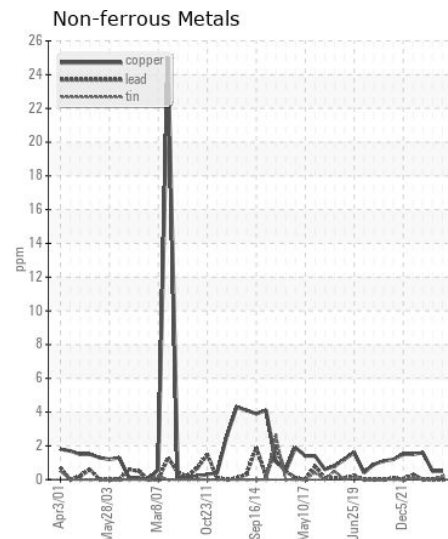
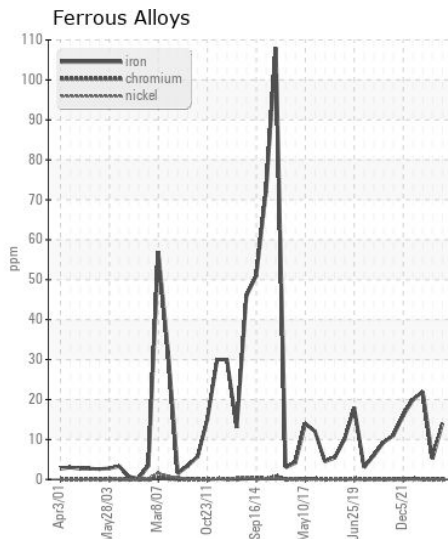
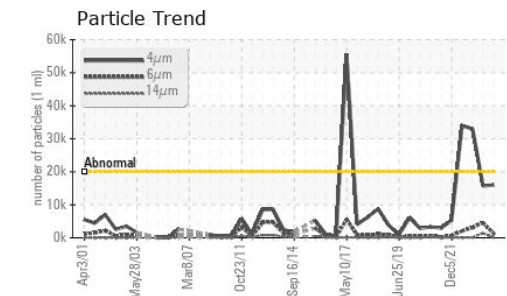
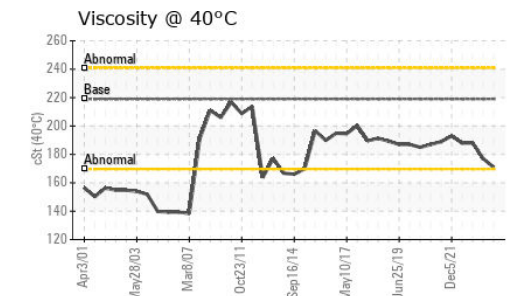
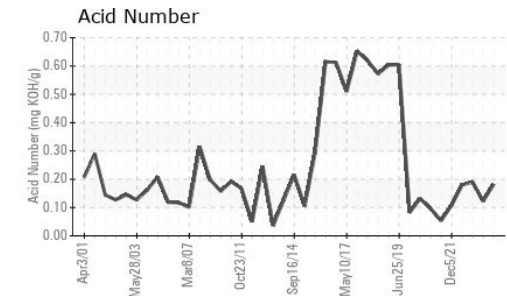
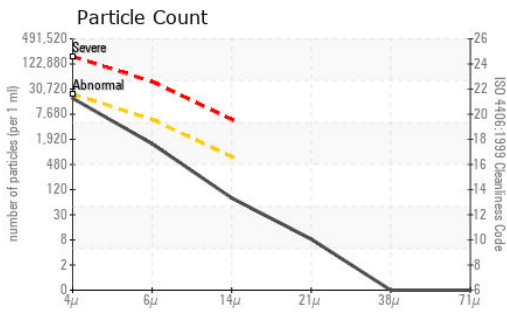
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>&lt;1</b>	3	2
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>20000	<b>16037</b>	15656	▲ 32957
Particles >6µm		ASTM D7647	>5000	<b>1313</b>	4568	3071
Particles >14µm		ASTM D7647	>640	<b>67</b>	▲ 1352	113
Particles >21µm		ASTM D7647	>160	<b>7</b>	▲ 266	10
Particles >38µm		ASTM D7647	>40	<b>0</b>	4	0
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>21/18/13</b>	▲ 21/19/18	▲ 22/19/14
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>0</b>	0	<1
Boron	ppm	ASTM D5185m	3.2	<b>1</b>	<1	1
Barium	ppm	ASTM D5185m	0.5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	1.1	<b>0</b>	1	2
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m	0.1	<b>4</b>	<1	3
Calcium	ppm	ASTM D5185m	1.6	<b>23</b>	21	59
Phosphorus	ppm	ASTM D5185m	159	<b>14</b>	32	103
Zinc	ppm	ASTM D5185m	0.5	<b>2</b>	9	29
Sulfur	ppm	ASTM D5185m	10342	<b>1437</b>	1804	3692
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.182</b>	0.122	0.19
Visc @ 40°C	cSt	ASTM D445	219	<b>171</b>	177	188



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WC0806374

Lab Number : 05972819

Unique Number : 10684769

Test Package : IND 2 ( Additional Tests: PrtCount )

Received : 09 Oct 2023

Tested : 13 Oct 2023

Diagnosed : 14 Oct 2023 - Don Baldrige

SEALED AIR CORP - CRYOVAC DIVISION

1301 WEST MAGNOLIA AVE

IOWA PARK, TX

US 76367

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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)