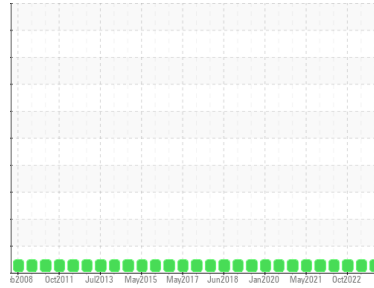




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
BARRIER DEPARTMENT SAMPLES
 Machine Id
WEB 03 SD SUBSTRATE WEB 03 SD

Component
Gearbox
 Fluid
TEXACO MEROPA 220 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.
 NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness 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	WC0869567	WC0757198	WC0365574
Sample Date	Client Info	20 Nov 2023	04 Apr 2023	30 Oct 2022
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	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 >0.2	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >200	57	40	19
Chromium	ppm ASTM D5185m >15	1	<1	0
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	0	0
Lead	ppm ASTM D5185m >100	<1	<1	0
Copper	ppm ASTM D5185m >200	1	1	1
Tin	ppm ASTM D5185m >25	<1	0	<1
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	3	3	2
Barium	ppm ASTM D5185m 0.5	4	0	0
Molybdenum	ppm ASTM D5185m 1.1	<1	<1	<1
Manganese	ppm ASTM D5185m	<1	<1	<1
Magnesium	ppm ASTM D5185m 0.1	<1	0	0
Calcium	ppm ASTM D5185m 1.6	4	3	5
Phosphorus	ppm ASTM D5185m 159	246	248	227
Zinc	ppm ASTM D5185m 0.5	9	15	13
Sulfur	ppm ASTM D5185m 10342	5432	5518	5870

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >50	4	3	2
Sodium	ppm ASTM D5185m	1	0	1
Potassium	ppm ASTM D5185m >20	<1	<1	0

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	1574	1275	470
Particles >6µm	ASTM D7647 >5000	294	274	105
Particles >14µm	ASTM D7647 >640	20	19	14
Particles >21µm	ASTM D7647 >160	5	3	3
Particles >38µm	ASTM D7647 >40	0	0	0
Particles >71µm	ASTM D7647 >10	0	0	0
Oil Cleanliness	ISO 4406 (c) >--/19/16	18/15/11	17/15/11	16/14/11

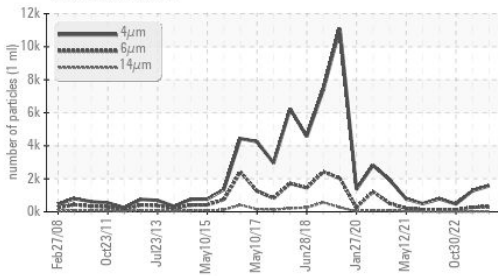
FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045	0.48	0.64	0.54

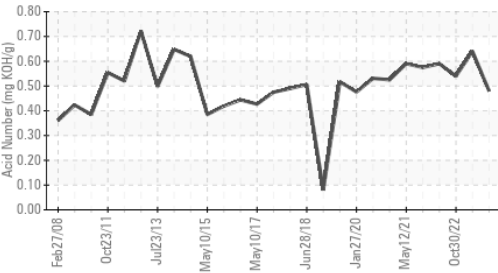


OIL ANALYSIS REPORT

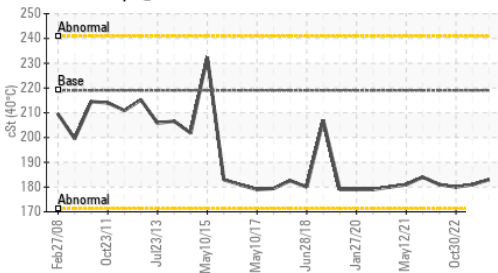
Particle Trend



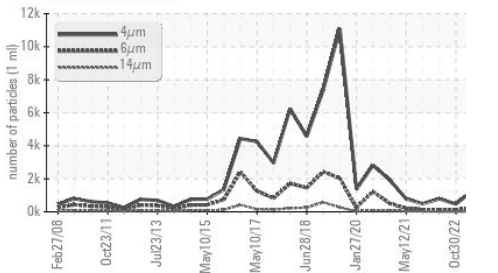
Acid Number



Viscosity @ 40°C



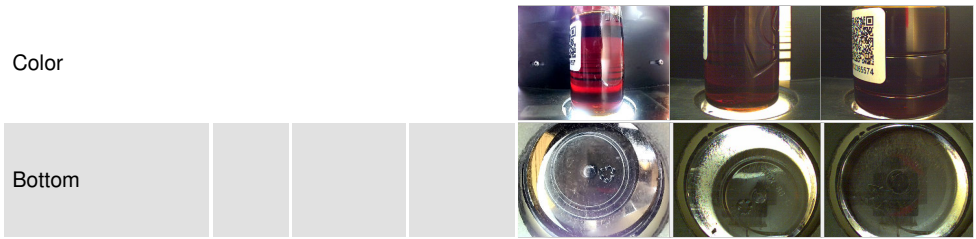
Particle Trend



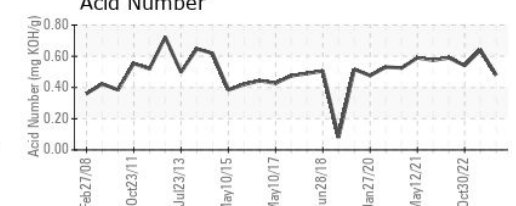
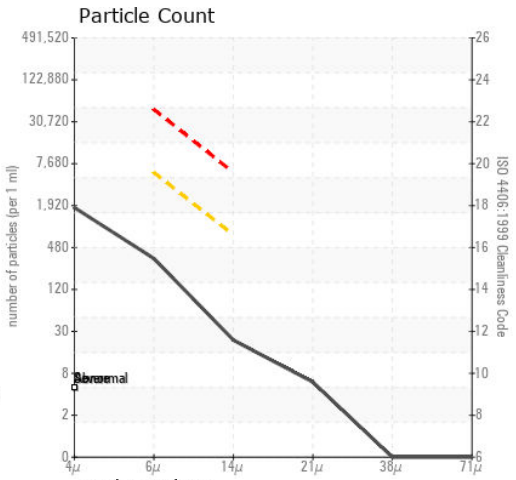
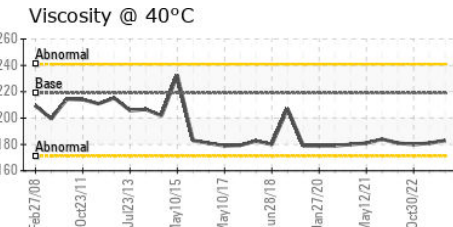
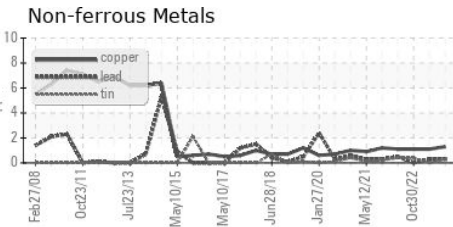
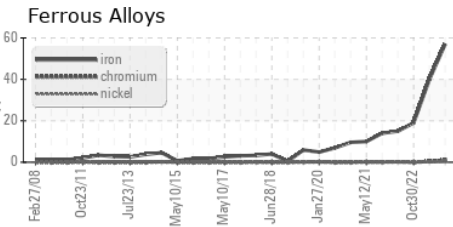
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 219	183	181	180

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0869567 **Received** : 21 Nov 2023
Lab Number : 06014002 **Diagnosed** : 30 Nov 2023
Unique Number : 10753146 **Diagnostician** : Wes Davis
Test Package : IND 2 (Additional Tests: PrtCount)

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 1301 WEST MAGNOLIA AVE
 IOWA PARK, TX
 US 76367
 Contact: KEVIN KETCHERSID
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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)