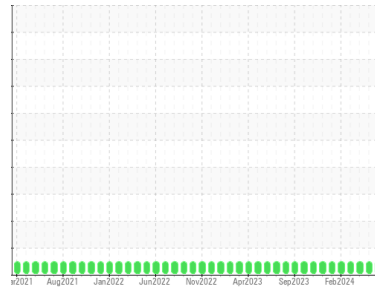




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
SOLAR
 Component
Turbine
 Fluid
MOBIL DTE 732 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

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	WC0711818	WC0820306	WC0907816
Sample Date	Client Info	04 Jun 2024	01 May 2024	04 Apr 2024
Machine Age	mths Client Info	0	0	0
Oil Age	mths Client Info	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >15	0	0	0
Chromium	ppm ASTM D5185m >4	0	0	<1
Nickel	ppm ASTM D5185m >2	0	0	0
Titanium	ppm ASTM D5185m	0	0	0
Silver	ppm ASTM D5185m	0	0	0
Aluminum	ppm ASTM D5185m >10	0	0	0
Lead	ppm ASTM D5185m	0	<1	0
Copper	ppm ASTM D5185m >5	0	0	0
Tin	ppm ASTM D5185m >5	0	<1	<1
Vanadium	ppm ASTM D5185m	<1	0	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	0	0	0
Barium	ppm ASTM D5185m	0	9	3
Molybdenum	ppm ASTM D5185m	0	0	0
Manganese	ppm ASTM D5185m	0	<1	0
Magnesium	ppm ASTM D5185m	0	<1	0
Calcium	ppm ASTM D5185m	4	6	5
Phosphorus	ppm ASTM D5185m	11	8	9
Zinc	ppm ASTM D5185m	0	0	0
Sulfur	ppm ASTM D5185m	29	22	13

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >15	<1	<1	<1
Sodium	ppm ASTM D5185m	7	7	7
Potassium	ppm ASTM D5185m >20	0	2	0
Water	% ASTM D6304 >0.03	0.001	0.001	0.002
ppm Water	ppm ASTM D6304 >300	4	11	21

FLUID CLEANLINESS

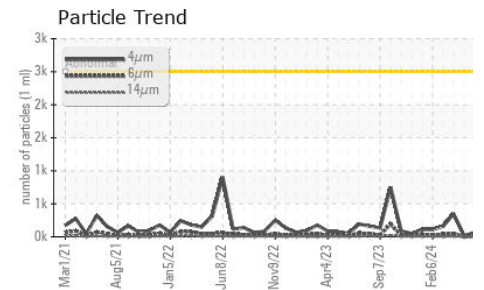
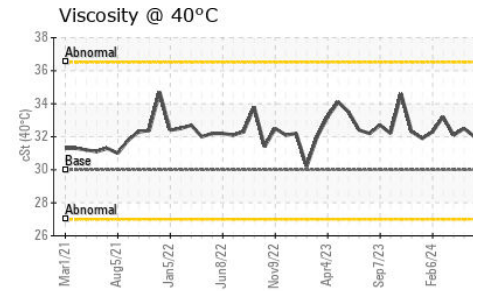
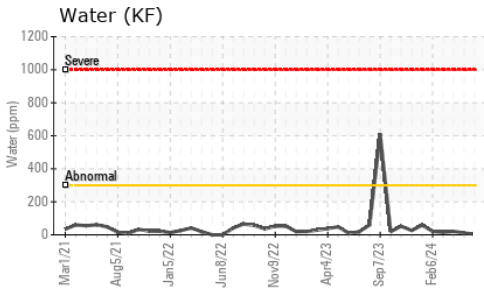
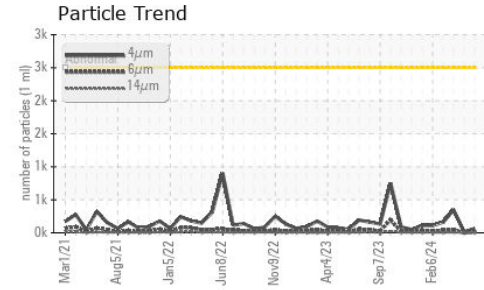
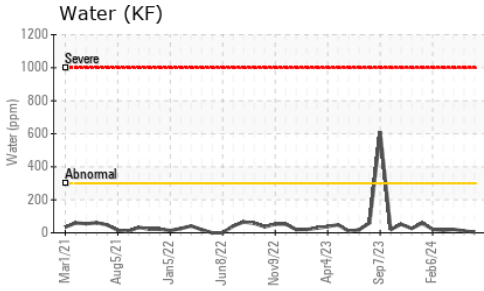
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >2500	64	15	346
Particles >6µm	ASTM D7647 >640	14	0	48
Particles >14µm	ASTM D7647 >80	2	0	7
Particles >21µm	ASTM D7647 >20	0	0	3
Particles >38µm	ASTM D7647 >4	0	0	0
Particles >71µm	ASTM D7647 >3	0	0	0
Oil Cleanliness	ISO 4406 (c) >18/16/13	13/11/9	11/7/7	16/13/10

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 0.10	0.12	0.11	0.10



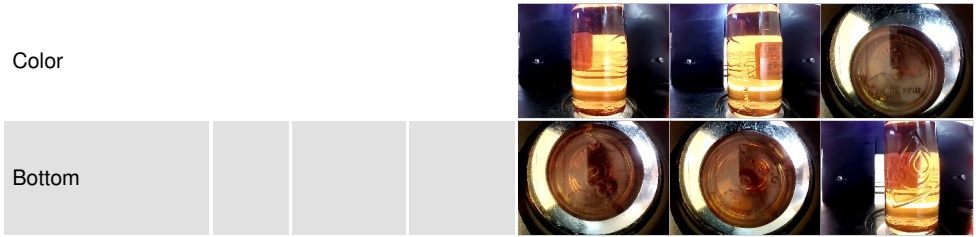
OIL ANALYSIS REPORT



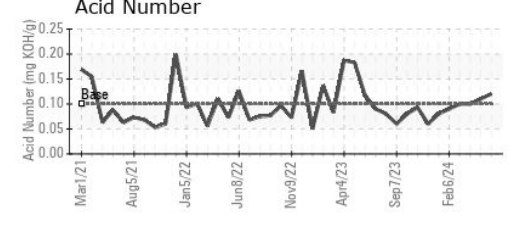
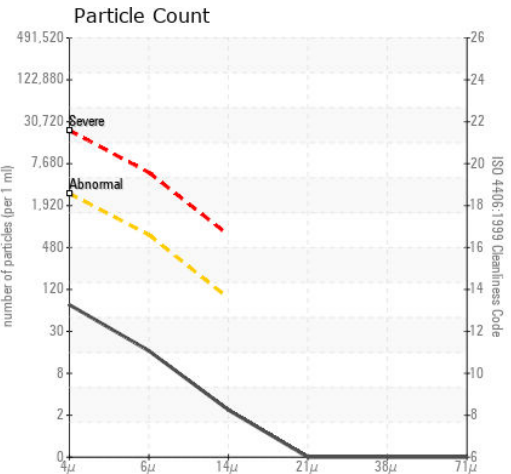
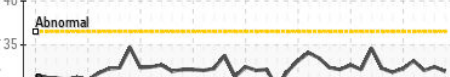
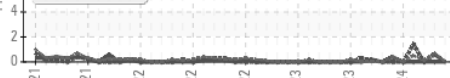
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.03	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	30.0	32.0	32.5

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0711818 **Received** : 10 Jun 2024
Lab Number : 06205373 **Tested** : 13 Jun 2024
Unique Number : 11072834 **Diagnosed** : 13 Jun 2024 - Don Baldrige
Test Package : IND 2 (Additional Tests: KF)

UGI ENERGY SERVICES - LNG FACILITY
 80 ENERGY LN
 MESHOPPEN, PA
 US 18630
 Contact: JOE BARRETT
 jbarrett@ugies.com

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)