

PROBLEM SUMMARY

Sample Rating Trend

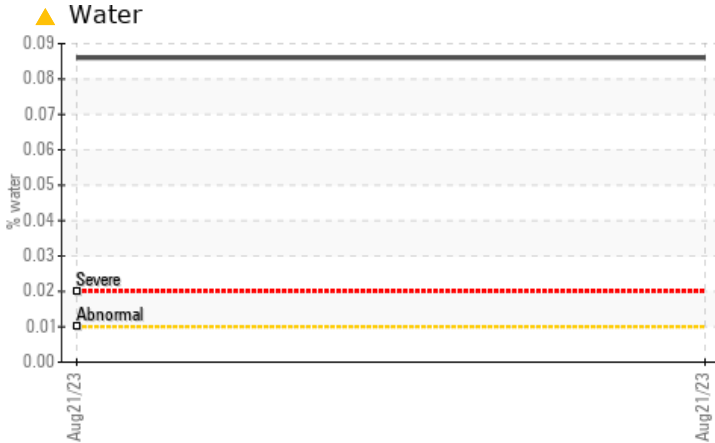


WATER



Machine Id
NOT GIVEN TO90002280
Component
Refrigeration Compressor
Fluid
NOT GIVEN (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time.
No corrective action is recommended at this time.
We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	---	---
Water	%	ASTM D6304	>0.01	▲ 0.086	---	---
ppm Water	ppm	ASTM D6304	>100	▲ 862.8	---	---

Customer Id: UCTULMID
Sample No.: TO90002280
Lab Number: 05931614
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@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
Resample	---	---	?	We recommend an early resample to monitor this condition.
Information Required	---	---	?	Please specify the brand, type, and viscosity of the oil on your next sample.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend

WATER



Machine Id
NOT GIVEN TO90002280
 Component
Refrigeration Compressor
 Fluid
NOT GIVEN (--- GAL)



DIAGNOSIS

Recommendation
 No corrective action is recommended at this time. No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear
 All component wear rates are normal.

Contamination
 There is a light concentration of water present in the oil. The amount and size of particulates present in the system are 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		TO90002280	---	---
Sample Date	Client Info		21 Aug 2023	---	---
Machine Age	yrs Client Info		0	---	---
Oil Age	yrs Client Info		0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			ABNORMAL	---	---

WEAR METALS	method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	>8	10	---	---
Chromium	ppm ASTM D5185m	>2	0	---	---
Nickel	ppm ASTM D5185m		0	---	---
Titanium	ppm ASTM D5185m		0	---	---
Silver	ppm ASTM D5185m	>2	0	---	---
Aluminum	ppm ASTM D5185m	>3	0	---	---
Lead	ppm ASTM D5185m	>2	0	---	---
Copper	ppm ASTM D5185m	>8	<1	---	---
Tin	ppm ASTM D5185m	>4	1	---	---
Vanadium	ppm ASTM D5185m		0	---	---
Cadmium	ppm ASTM D5185m		0	---	---

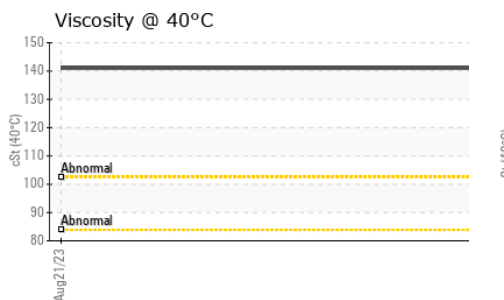
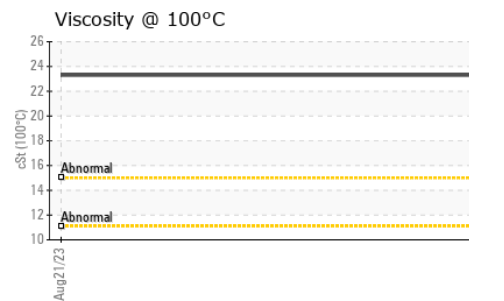
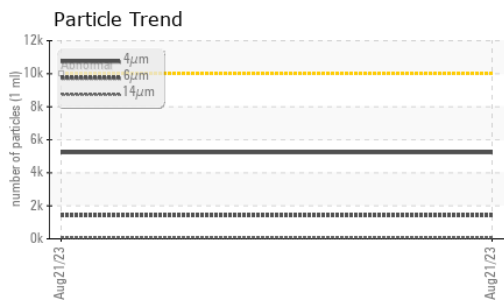
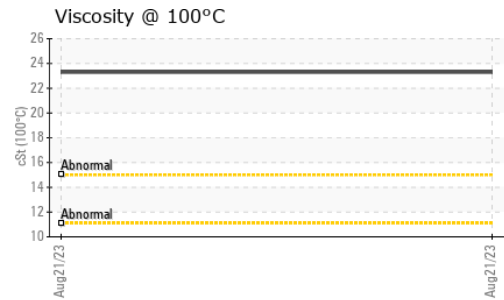
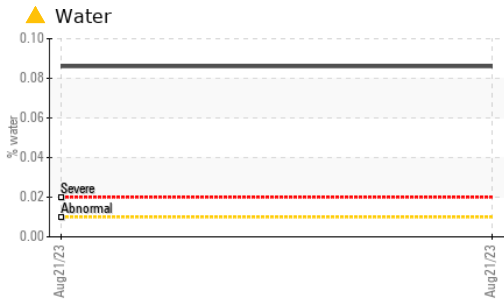
ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m		0	---	---
Barium	ppm ASTM D5185m		0	---	---
Molybdenum	ppm ASTM D5185m		0	---	---
Manganese	ppm ASTM D5185m		<1	---	---
Magnesium	ppm ASTM D5185m		1	---	---
Calcium	ppm ASTM D5185m		6	---	---
Phosphorus	ppm ASTM D5185m		1410	---	---
Zinc	ppm ASTM D5185m		0	---	---
Sulfur	ppm ASTM D5185m		9	---	---

CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>15	2	---	---
Sodium	ppm ASTM D5185m		2	---	---
Potassium	ppm ASTM D5185m	>20	1	---	---
Water	% ASTM D6304	>0.01	▲ 0.086	---	---
ppm Water	ppm ASTM D6304	>100	▲ 862.8	---	---

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	5229	---	---
Particles >6µm	ASTM D7647	>2500	1416	---	---
Particles >14µm	ASTM D7647	>320	79	---	---
Particles >21µm	ASTM D7647	>80	21	---	---
Particles >38µm	ASTM D7647	>20	0	---	---
Particles >71µm	ASTM D7647	>4	0	---	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	20/18/13	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974		0.015	---	---

OIL ANALYSIS REPORT

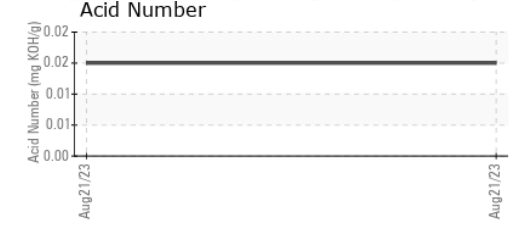
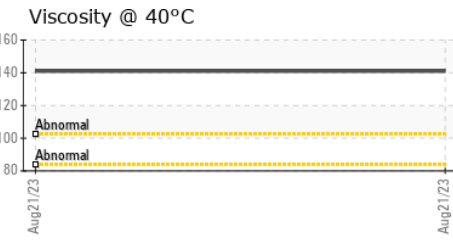
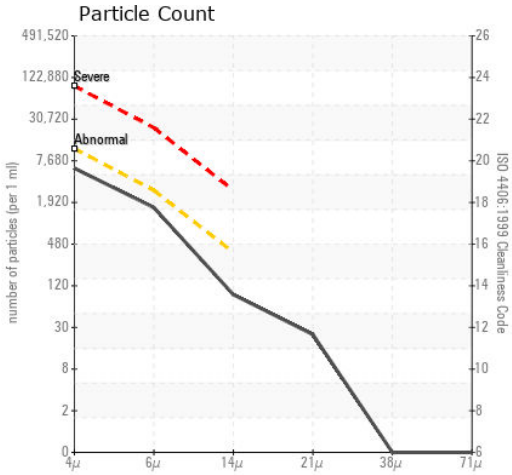
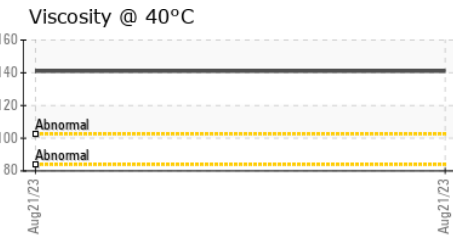
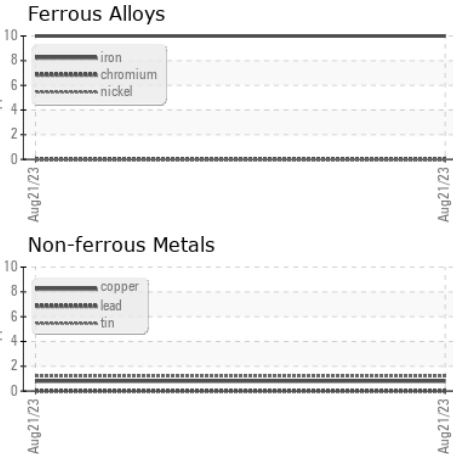


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.01	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	141	---	---
Visc @ 100°C	cSt	ASTM D445	23.3	---	---
Viscosity Index (VI)	Scale	ASTM D2270	196	---	---

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO90002280 **Received** : 22 Aug 2023
Lab Number : 05931614 **Diagnosed** : 24 Aug 2023
Unique Number : 10616885 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: KV100, PrtCount, VI)

TULCO OILS INC (009-MIDLAND DIVISION)
 2415 S. NICKLAS AVENUE
 OKLAHOMA CITY, OK
 US 73128
 Contact: Service Manager

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: (405)470-6818