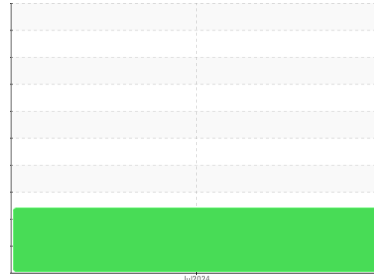




OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Area

MARCEL PAPER

Machine Id

TM 1 - QUALITY SYN EP 320

Component

New (Unused) Oil

Fluid

{not provided} (--- GAL)

DIAGNOSIS

● Recommendation

This is a baseline read-out on the submitted sample.

▲ Contamination

There is a trace of moisture present in the oil.

● Fluid Condition

Viscosity of sample indicates oil is within ISO 100 range, advise investigate.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC06239523	---	---
Sample Date	Client Info		15 Jul 2024	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			ATTENTION	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >5	9	---	---
Chromium	ppm	ASTM D5185m >5	0	---	---
Nickel	ppm	ASTM D5185m >5	0	---	---
Titanium	ppm	ASTM D5185m	0	---	---
Silver	ppm	ASTM D5185m >5	0	---	---
Aluminum	ppm	ASTM D5185m >5	<1	---	---
Lead	ppm	ASTM D5185m >5	0	---	---
Copper	ppm	ASTM D5185m >5	13	---	---
Tin	ppm	ASTM D5185m >5	0	---	---
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	0	---	---
Magnesium	ppm	ASTM D5185m	2	---	---
Calcium	ppm	ASTM D5185m	1	---	---
Phosphorus	ppm	ASTM D5185m	100	---	---
Zinc	ppm	ASTM D5185m	15	---	---
Sulfur	ppm	ASTM D5185m	4093	---	---

CONTAMINANTS

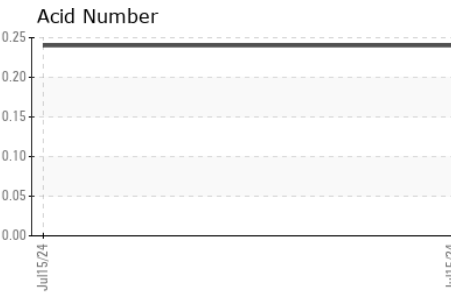
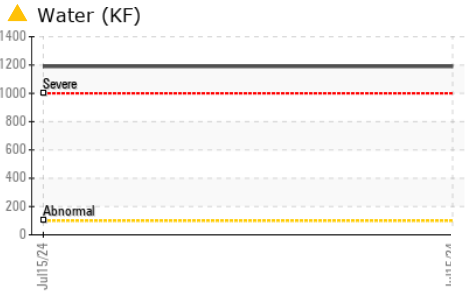
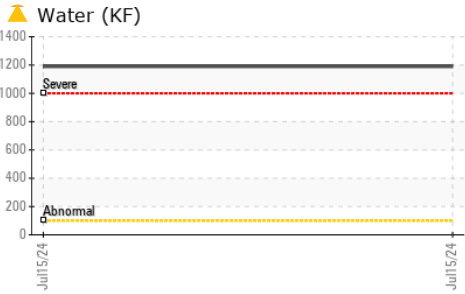
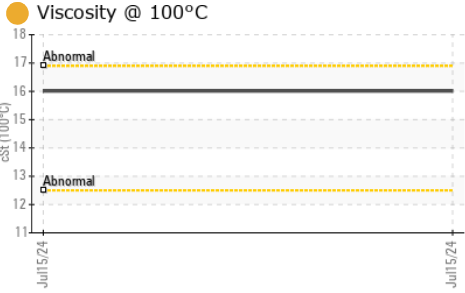
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	12	---	---
Sodium	ppm	ASTM D5185m	2	---	---
Potassium	ppm	ASTM D5185m >20	<1	---	---
Water	%	ASTM D6304	▲ 0.119	---	---
ppm Water	ppm	ASTM D6304	▲ 1190	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.24	---	---



OIL ANALYSIS REPORT



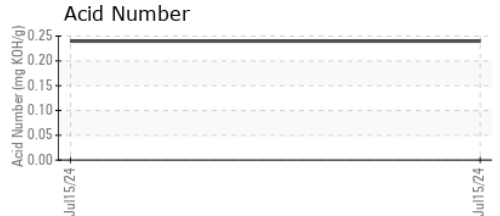
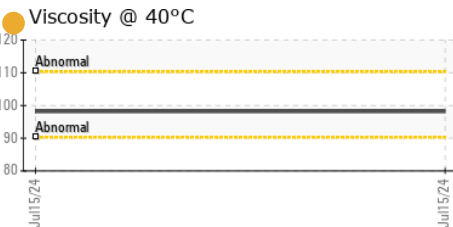
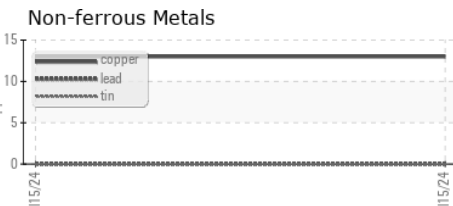
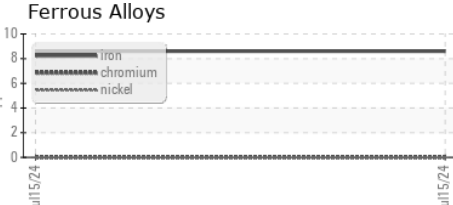
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	● 98.17	---	---
Visc @ 100°C	cSt	ASTM D445	● 16.01	---	---
Viscosity Index (VI)	Scale	ASTM D2270	175	---	---

SAMPLE IMAGES

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC06239523 **Received** : 17 Jul 2024
Lab Number : 06239523 **Tested** : 19 Jul 2024
Unique Number : 11128357 **Diagnosed** : 19 Jul 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: FT-IR, KF, KV100, PrtCount, VI)

QUALITY OIL AND GAS COMPANY
 203 WEST BROAD AVE
 ROCKINGHAM, NC
 US 28379
 Contact: JASON STROLL
 jstroll@qualityoilandgas.com
 T: (910)997-3101

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)

F: x: