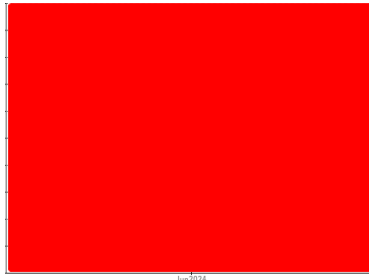




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
SPIRAL 16747
Component
Gearbox
Fluid
{not provided} (--- GAL)

DIAGNOSIS

▲ Recommendation

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

▲ Wear

Gear wear is indicated.

▲ Contamination

There is a high concentration of water present in the oil.

▲ Fluid Condition

The AN level is above the recommended limit. The oil is no longer serviceable.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC06216340	---	---
Sample Date	Client Info		01 Jun 2024	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			SEVERE	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	▲ 679	---
Chromium	ppm	ASTM D5185m	>10	5	---
Nickel	ppm	ASTM D5185m	>10	1	---
Titanium	ppm	ASTM D5185m		4	---
Silver	ppm	ASTM D5185m		0	---
Aluminum	ppm	ASTM D5185m	>25	2	---
Lead	ppm	ASTM D5185m	>50	0	---
Copper	ppm	ASTM D5185m	>200	2	---
Tin	ppm	ASTM D5185m	>10	<1	---
Vanadium	ppm	ASTM D5185m		0	---
Cadmium	ppm	ASTM D5185m		0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		2	---
Barium	ppm	ASTM D5185m		3	---
Molybdenum	ppm	ASTM D5185m		<1	---
Manganese	ppm	ASTM D5185m		7	---
Magnesium	ppm	ASTM D5185m		1	---
Calcium	ppm	ASTM D5185m		17	---
Phosphorus	ppm	ASTM D5185m		553	---
Zinc	ppm	ASTM D5185m		39	---
Sulfur	ppm	ASTM D5185m		2684	---

CONTAMINANTS

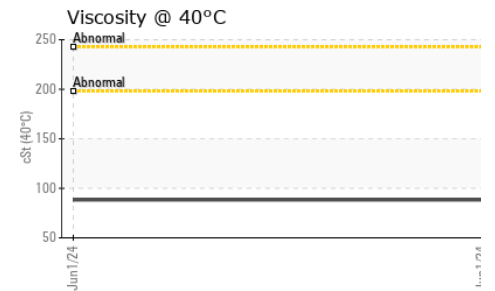
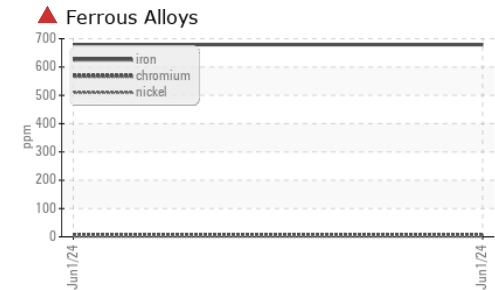
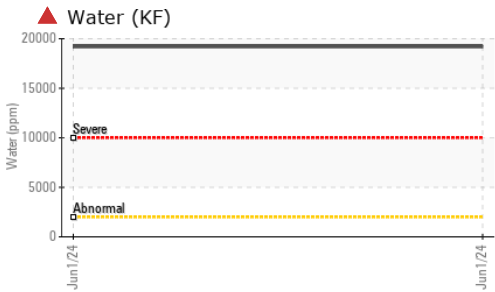
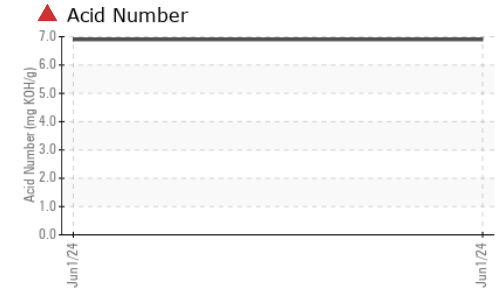
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	51	---
Sodium	ppm	ASTM D5185m		6	---
Potassium	ppm	ASTM D5185m	>20	4	---
Water	%	ASTM D6304	>0.2	▲ 1.92	---
ppm Water	ppm	ASTM D6304	>2000	▲ 19200	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		▲ 6.90	---



OIL ANALYSIS REPORT



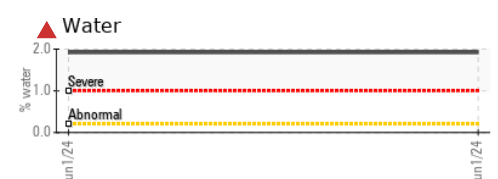
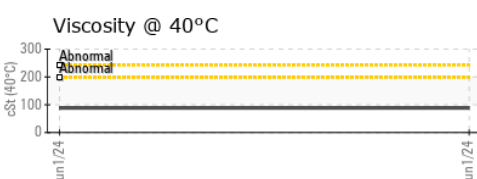
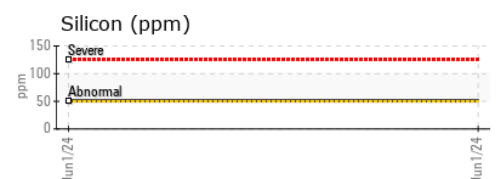
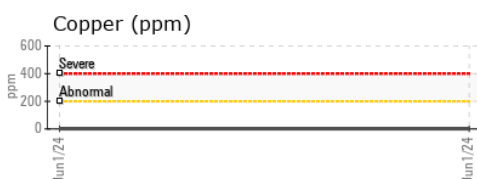
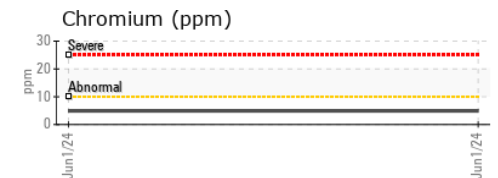
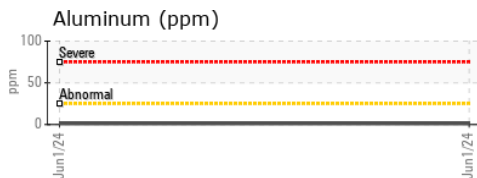
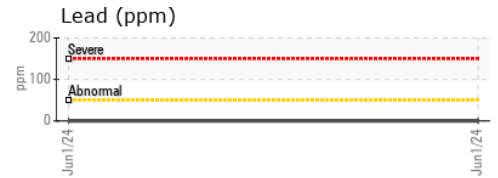
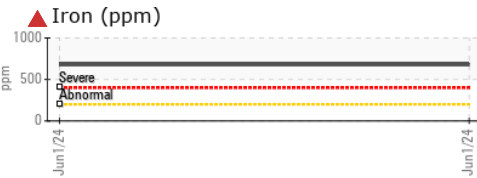
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	MODER	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	88.3	---	---

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC06216340 **Received** : 20 Jun 2024
Lab Number : 06216340 **Tested** : 21 Jun 2024
Unique Number : 11089204 **Diagnosed** : 23 Jun 2024 - Don Baldrige
Test Package : MOB 2 (Additional Tests: KF)

MOMAR Incorporated
 P.O. Box 19567
 Atlanta, GA
 US 30325

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)

Contact: JOHN STEED
 john.steed@momar.com
 T: (404)355-4580
 F: (678)894-4204