



# OIL ANALYSIS REPORT

## Sample Rating Trend



## DEGRADATION



Area

### SYNOIL 8K FG

Machine Id

### QUINCY QSI-600 BU1201070026 - MSI EXPRESS INC

Component

### Compressor

## DIAGNOSIS

### Recommendation

We advise that you check for a possible overheat condition. The oil is near the end of its useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The oil viscosity is higher than normal. The AN level is at the top-end of the recommended limit.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>UCZ06206665</b>	UCZ06074904	---
Sample Date	Client Info		<b>01 Jun 2024</b>	20 Jan 2024	---
Machine Age	hrs	Client Info	<b>92406</b>	84677	---
Oil Age	hrs	Client Info	<b>4071</b>	1342	---
Oil Changed	Client Info		<b>N/A</b>	N/A	---
Sample Status			<b>ATTENTION</b>	ATTENTION	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>0</b>	0	---
Chromium	ppm	ASTM D5185m >5	<b>&lt;1</b>	0	---
Nickel	ppm	ASTM D5185m	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >15	<b>2</b>	0	---
Lead	ppm	ASTM D5185m >65	<b>0</b>	0	---
Copper	ppm	ASTM D5185m >65	<b>&lt;1</b>	0	---
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0.3	<b>0</b>	0	---
Barium	ppm	ASTM D5185m 0.3	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m 0.9	<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185m 0.2	<b>0</b>	<1	---
Calcium	ppm	ASTM D5185m 0.1	<b>0</b>	<1	---
Phosphorus	ppm	ASTM D5185m 429	<b>38</b>	49	---
Zinc	ppm	ASTM D5185m 0.3	<b>0</b>	0	---
Sulfur	ppm	ASTM D5185m 1336	<b>100</b>	190	---

## CONTAMINANTS

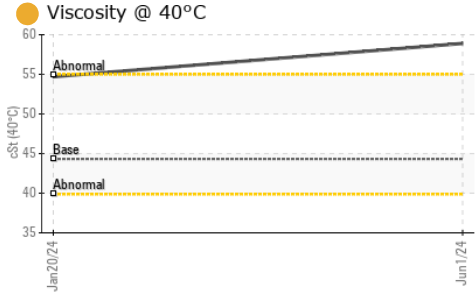
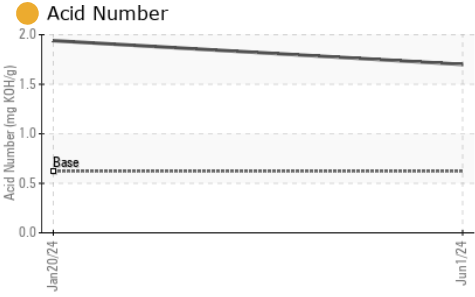
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >35	<b>2</b>	3	---
Sodium	ppm	ASTM D5185m	<b>0</b>	<1	---
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.622	<b>1.70</b>	1.94	---



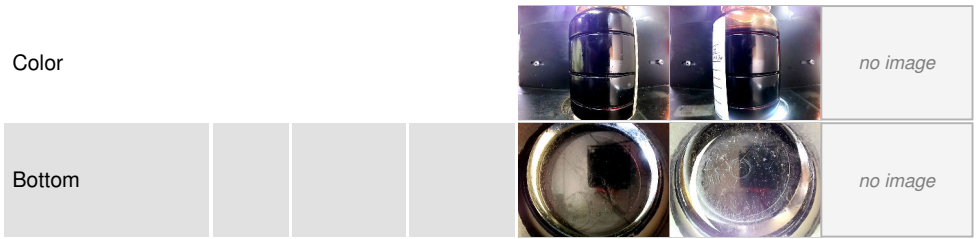
# OIL ANALYSIS REPORT



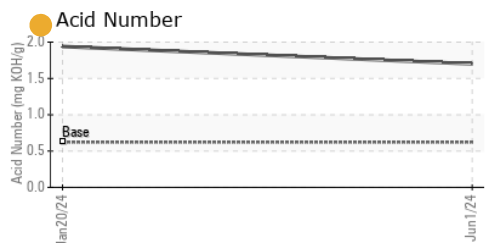
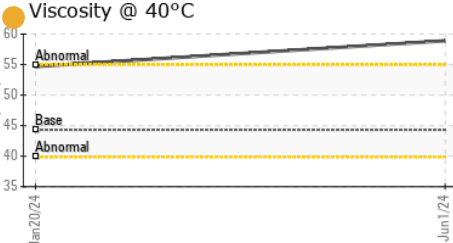
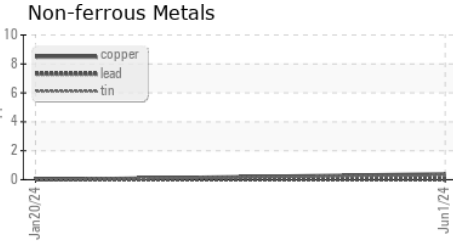
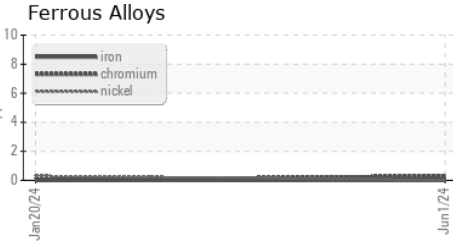
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	44.32	58.9	54.7

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UCZ06206665      **Received** : 11 Jun 2024  
**Lab Number** : 06206665      **Tested** : 19 Jun 2024  
**Unique Number** : 11074126      **Diagnosed** : 19 Jun 2024 - Jonathan Hester  
**Test Package** : IND 2

**ZORN COMP & EQUIPMENT CO (GB)**  
 733 POTTS AVE  
 GREEN BAY, WI  
 US 54304  
 Contact: DEAN SCHAD  
 dean.schad@zornair.com  
 T: (920)391-8121  
 F: (920)499-1168

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)