



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**37534 (TRACE PO 36471)**  
 Machine Id  
**JP8TS0001-09182023B**  
 Component  
**Turbine**  
 Fluid  
**832020 JP8 MIL-DTL-83133 (--- LTR)**



## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target SAE AS4059 (replaces NAS 1638) cleanliness code. There is no indication of any contamination 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 acceptable for the time in service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC05959301</b>	---	---
Sample Date	Client Info	<b>18 Sep 2023</b>	---	---
Machine Age	hrs Client Info	<b>0</b>	---	---
Oil Age	hrs Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>NORMAL</b>	---	---

## WEAR METALS

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

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m	<b>0</b>	---	---
Barium ppm	ASTM D5185m	<b>0</b>	---	---
Molybdenum ppm	ASTM D5185m	<b>0</b>	---	---
Manganese ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Magnesium ppm	ASTM D5185m	<b>2</b>	---	---
Calcium ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Phosphorus ppm	ASTM D5185m	<b>2</b>	---	---
Zinc ppm	ASTM D5185m	<b>0</b>	---	---
Sulfur ppm	ASTM D5185m	<b>0</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >15	<b>0</b>	---	---
Sodium ppm	ASTM D5185m	<b>0</b>	---	---
Potassium ppm	ASTM D5185m >20	<b>&lt;1</b>	---	---
Water %	ASTM D6304 >0.03	<b>0.003</b>	---	---
ppm Water ppm	ASTM D6304 >300	<b>27.2</b>	---	---

## FLUID CLEANLINESS

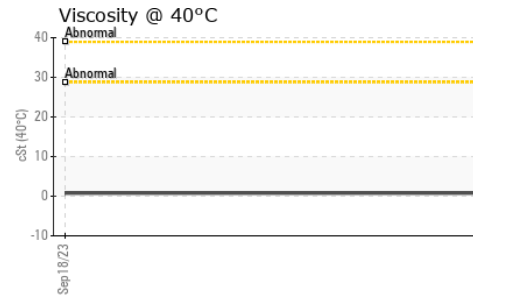
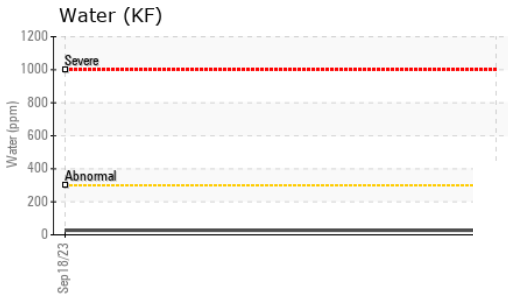
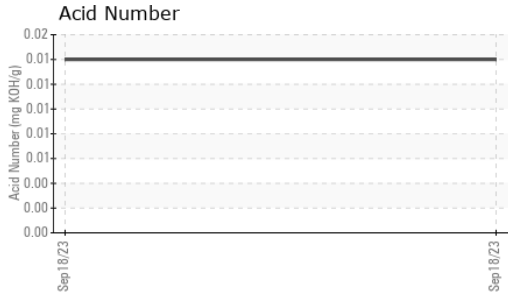
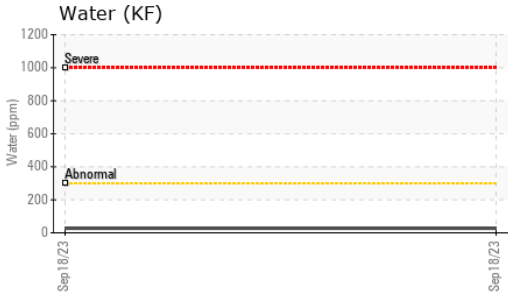
method	limit/base	current	history1	history2
Oil Cleanliness	ISO 4406 (c) >5	<b>15/14/10</b>	---	---
Particles 5-15µm count	*NAS 1638 >8000	<b>7001</b>	---	---
Particles 15-25µm count	*NAS 1638 >1425	<b>637</b>	---	---
Particles 25-50µm count	*NAS 1638 >253	<b>159</b>	---	---
Particles 50-100µm count	*NAS 1638 >45	<b>14</b>	---	---
Particles >100µm count	*NAS 1638 >8	<b>0</b>	---	---
NAS 1638 Class	*NAS 1638 >5	<b>5</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045	<b>0.014</b>	---	---



# OIL ANALYSIS REPORT



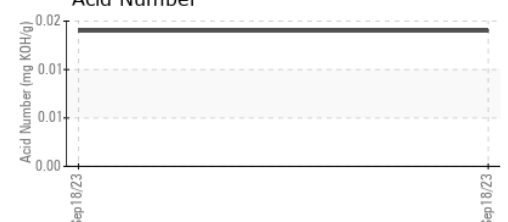
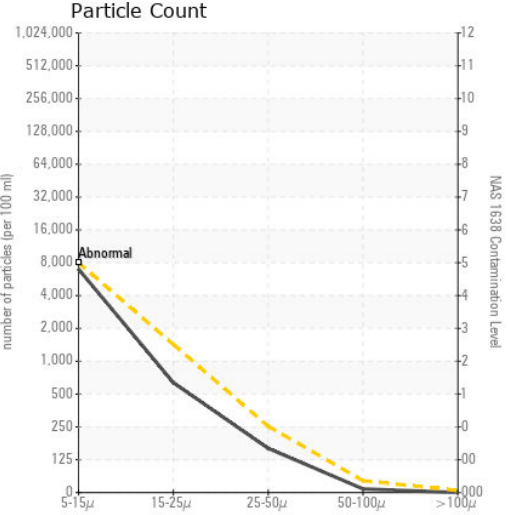
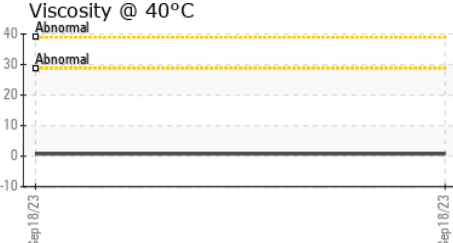
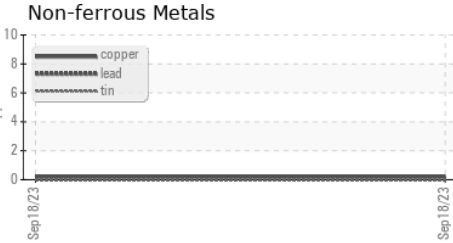
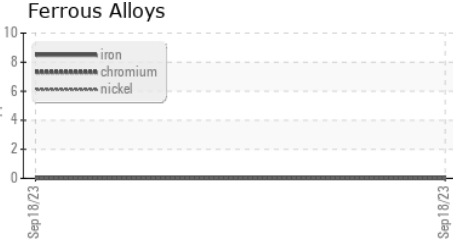
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	0.77	---	---

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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC05959301 **Received** : 22 Sep 2023  
**Lab Number** : 05959301 **Diagnosed** : 02 Oct 2023  
**Unique Number** : 10660514 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCountNAS )

**RIDGE ENGINEERING**  
 3987 HAMPSTEAD-MEXICO RD  
 HAMPSTEAD, MD  
 US 21074  
 Contact: BETHANY HUGHES\*  
 bethany@ridgeeng.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)

T:  
F: