

Machine Id  
**GE HSK 11**

Component  
**Gas Turbine**

Fluid  
**AMSOIL SYN TURB ISO VG 32 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

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

### Wear

{not applicable}

### ▲ Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target SAE AS4059 (replaces NAS 1638) cleanliness code.

### 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	<b>PCA0108267</b>	---	---
Sample Date	Client Info	<b>10 Nov 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>ATTENTION</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>1</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>6</b>	---
Molybdenum	ppm	ASTM D5185m	<b>0</b>	---
Manganese	ppm	ASTM D5185m	<b>0</b>	---
Magnesium	ppm	ASTM D5185m	<b>0</b>	---
Calcium	ppm	ASTM D5185m	<b>&lt;1</b>	---
Phosphorus	ppm	ASTM D5185m	<b>41</b>	---
Zinc	ppm	ASTM D5185m	<b>0</b>	---
Sulfur	ppm	ASTM D5185m	<b>699</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>0</b>	---
Water	%	ASTM D6304 >0.03	<b>0.002</b>	---
ppm Water	ppm	ASTM D6304 >300	<b>15.1</b>	---

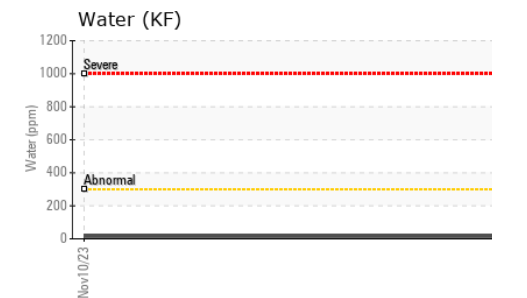
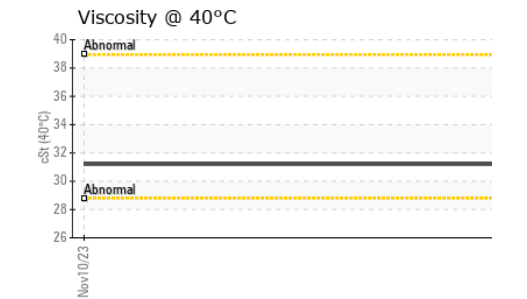
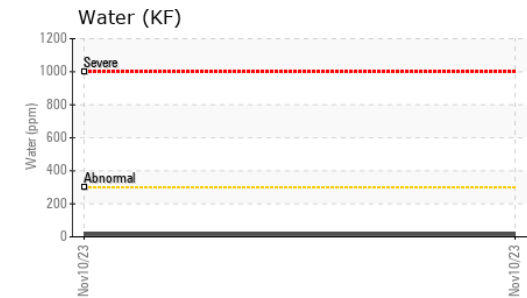
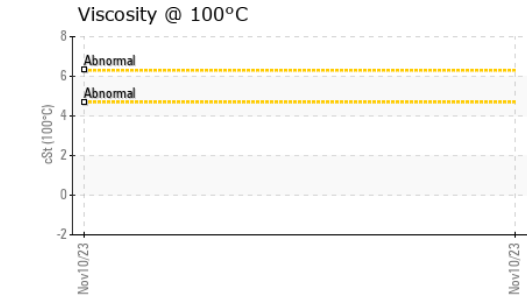
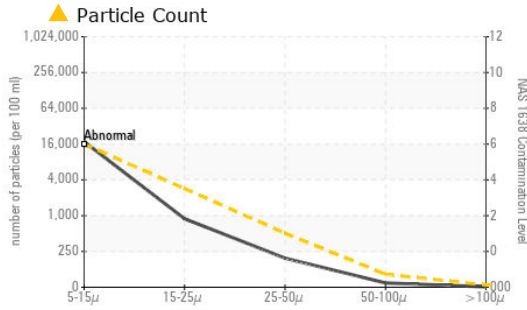
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles 5-15µm	count	*NAS 1638 >16000	<b>▲ 17577</b>	---
Particles 15-25µm	count	*NAS 1638 >2850	<b>888</b>	---
Particles 25-50µm	count	*NAS 1638 >506	<b>193</b>	---
Particles 50-100µm	count	*NAS 1638 >90	<b>30</b>	---
Particles >100µm	count	*NAS 1638 >16	<b>3</b>	---
NAS 1638	Class	*NAS 1638 >6	<b>7</b>	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.11</b>	---


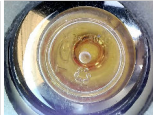
# OIL ANALYSIS REPORT



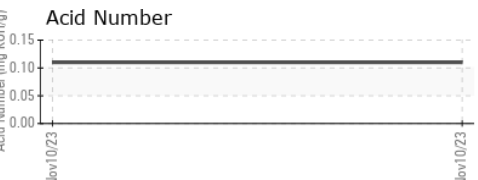
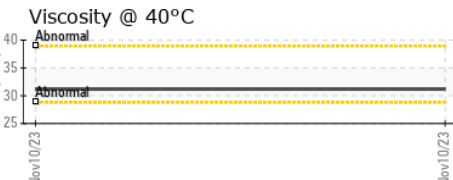
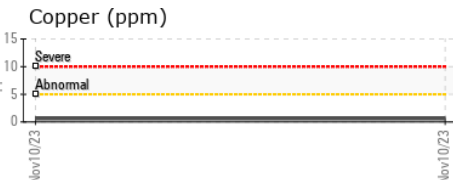
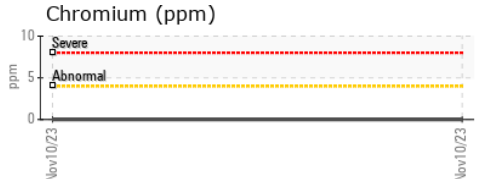
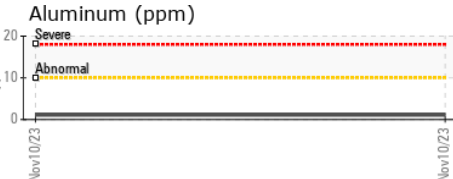
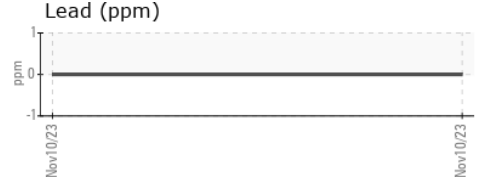
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
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	31.2	---	---

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

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0108267 **Received** : 15 Nov 2023  
**Lab Number** : 06009072 **Diagnosed** : 20 Nov 2023  
**Unique Number** : 10742834 **Diagnostician** : Doug Bogart  
**Test Package** : MOB 2 ( Additional Tests: KF, KV100, PrtCountNAS )

**MDU-HESKETT STATION**  
 2035 38TH ST  
 MANDAN, ND  
 US 58554  
 Contact: DJ STOCKWELL  
 dj.stockwell@mdu.com  
 T: (406)931-3562  
 F:

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)