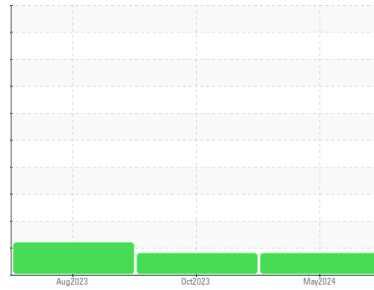




OIL ANALYSIS REPORT

Sample Rating Trend



SEDIMENT



Machine Id
SIEMENS GEG 2

Component
Gas Turbine

Fluid
PETRO CANADA SENTRON LD 8000 (774 LTR)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

All component wear rates are normal.

Contamination

There is a high amount of visible silt present in the sample.

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	USPM6182873	USP255116	USP255111
Sample Date	Client Info	16 May 2024	10 Oct 2023	10 Aug 2023
Machine Age	hrs	0	1778	766
Oil Age	hrs	0	1678	0
Oil Changed	Client Info	N/A	Changed	N/A
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >15	7	5	4
Chromium	ppm	ASTM D5185m >4	0	0	0
Nickel	ppm	ASTM D5185m >2	0	<1	0
Titanium	ppm	ASTM D5185m	<1	0	0
Silver	ppm	ASTM D5185m	<1	0	0
Aluminum	ppm	ASTM D5185m >10	2	2	2
Lead	ppm	ASTM D5185m	2	<1	0
Copper	ppm	ASTM D5185m >5	<1	0	1
Tin	ppm	ASTM D5185m >5	0	<1	0
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	0
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	<1	0	0
Manganese	ppm	ASTM D5185m	0	0	<1
Magnesium	ppm	ASTM D5185m	0	17	11
Calcium	ppm	ASTM D5185m 1351	1750	1742	1647
Phosphorus	ppm	ASTM D5185m 302	339	350	312
Zinc	ppm	ASTM D5185m 358	420	465	389
Sulfur	ppm	ASTM D5185m 2758	3464	3409	3853

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >15	2	3	3
Sodium	ppm	ASTM D5185m	7	<1	2
Potassium	ppm	ASTM D5185m >20	4	<1	0
Water	%	ASTM D6304 >0.03	0.050	0.054	0.044
ppm Water	ppm	ASTM D6304 >300	502	545.5	442.1

FLUID CLEANLINESS

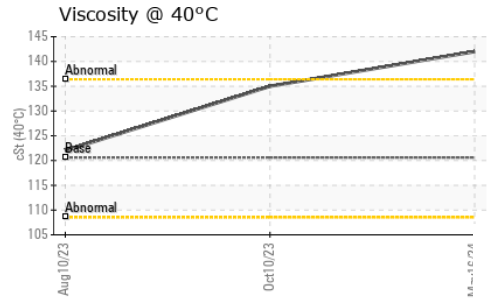
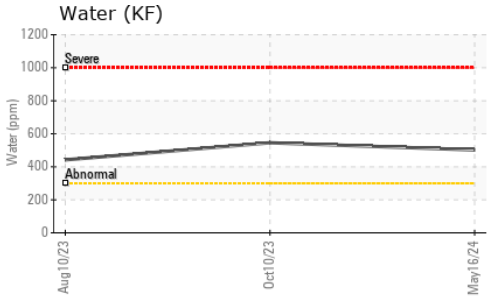
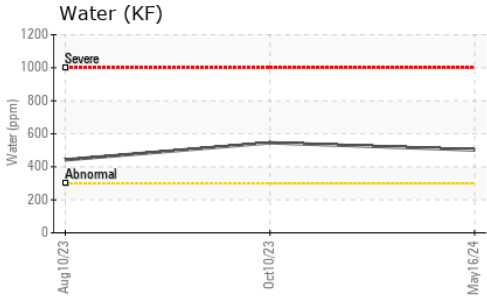
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >2500	---	---	▲ 206292
Particles >6µm	ASTM D7647 >640	---	---	▲ 42407
Particles >14µm	ASTM D7647 >80	---	---	52
Particles >21µm	ASTM D7647 >20	---	---	7
Particles >38µm	ASTM D7647 >4	---	---	0
Particles >71µm	ASTM D7647 >3	---	---	0
Oil Cleanliness	ISO 4406 (c) >18/16/13	---	---	▲ 25/23/13

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 0.86	2.61	1.93	0.91



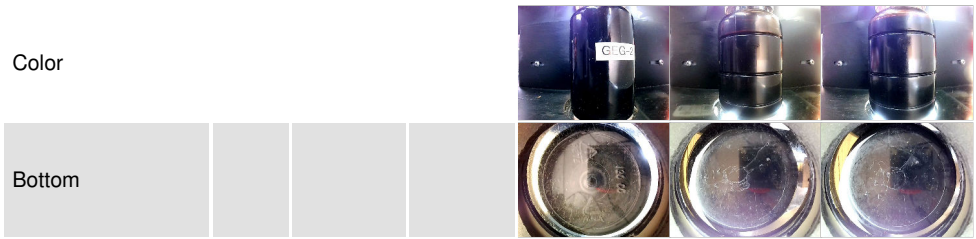
OIL ANALYSIS REPORT



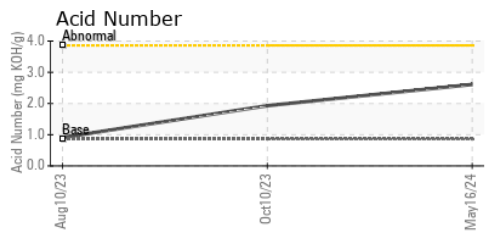
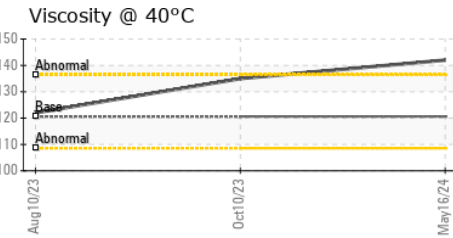
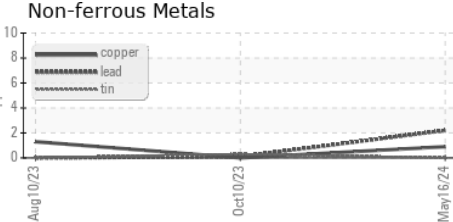
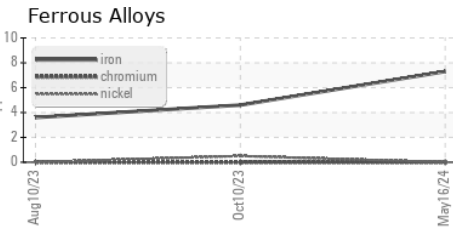
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	▲ HEAVY	▲ MODER
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	120.6	142	135

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USPM6182873 **Received** : 17 May 2024
Lab Number : 06182873 **Tested** : 30 May 2024
Unique Number : 11034199 **Diagnosed** : 30 May 2024 - Jonathan Hester
Test Package : IND 2

DCO-SIEMENS ENERGY
 CORINASO PT PSC 1005 BOX 68
 GUANTANAMO BAY, UT
 US 34009
 Contact: BARBARA DORSEY

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: