

OIL ANALYSIS REPORT

E9 RULer Conductivity **SOLAR E9 Solar Titan 130**

Component **Gas Turbine**

ROYAL PURPLE SYNFILM 32 (1081 GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. Conductivity is acceptable at 256 pS.

All component wear rates are normal.

Contamination

MPC (Membrane Patch Colorimetry) test indicates acceptable levels of varnish present. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

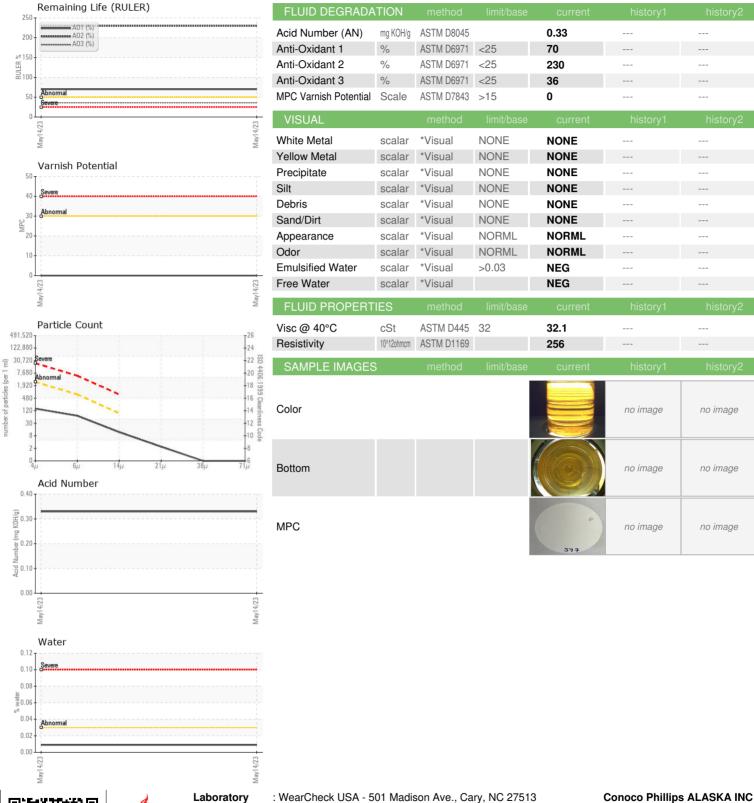
Fluid Condition

The AN level is acceptable for this fluid. Linear Sweep Voltammetry (RULER - ASTM D6971) testing indicates normal levels of anti-oxidants present in the oil. The condition of the oil is suitable for further service.

				May2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0745596		
Sample Date		Client Info		14 May 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>15	0		
Chromium	ppm	ASTM D5185m	>4	0		
Nickel	ppm	ASTM D5185m	>2	0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	3		
Lead	ppm	ASTM D5185m		0		
Copper	ppm	ASTM D5185m	>5	2		
Tin	ppm	ASTM D5185m	>5	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	90	79		
Calcium	ppm	ASTM D5185m		16		
Phosphorus	ppm	ASTM D5185m		0		
Zinc	ppm	ASTM D5185m		22		
Sulfur	ppm	ASTM D5185m		19392		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1		
Sodium	ppm	ASTM D5185m		12		
Potassium	ppm	ASTM D5185m	>20	0		
Water	%	ASTM D6304	>0.03	0.009		
ppm Water	ppm	ASTM D6304	>300	90.3		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	134		
Particles >6µm		ASTM D7647	>640	61		
Particles >14µm		ASTM D7647	>80	10		
Particles >21µm		ASTM D7647	>20	2		
Particles >38µm		ASTM D7647	>4	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	14/13/10		



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Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: 05850577 : 10479932

Received : 18 May 2023 : WC0745596 Diagnosed : 06 Jun 2023

Diagnostician : Doug Bogart

Test Package: AOM 1 (Additional Tests: KF, RESISTIVITY) To discuss this sample report, contact Customer Service at 1-800-237-1369.

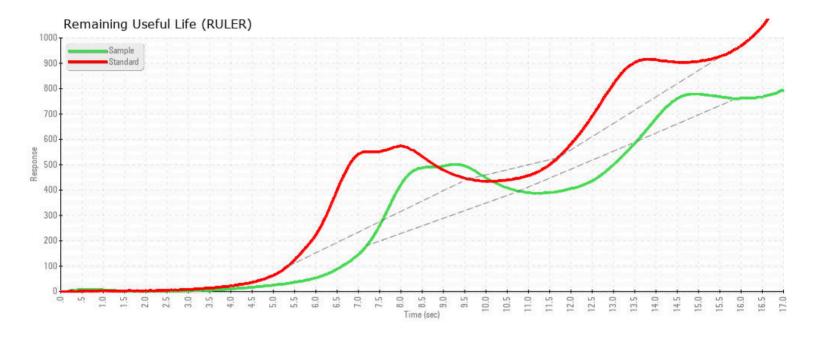
* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

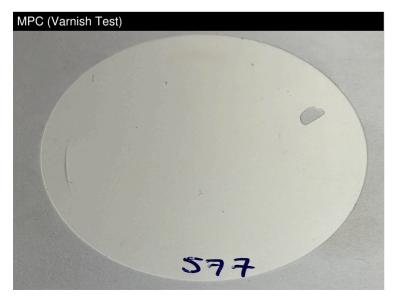
C/O LAF (ALPINE), 6441 S AIRPARK PL

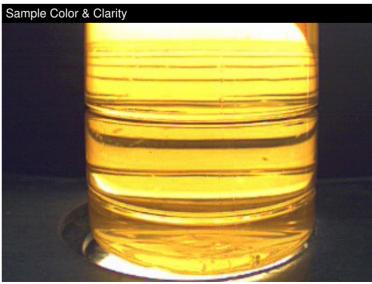
ANCHORAGE, AK US 99502

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