

OIL ANALYSIS REPORT

Area [73959] TINHGEN5BRGTURB

Component Turbine

ESSO TERESSO ISO 46 (170 LTR)

Sample Rating Trend



Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

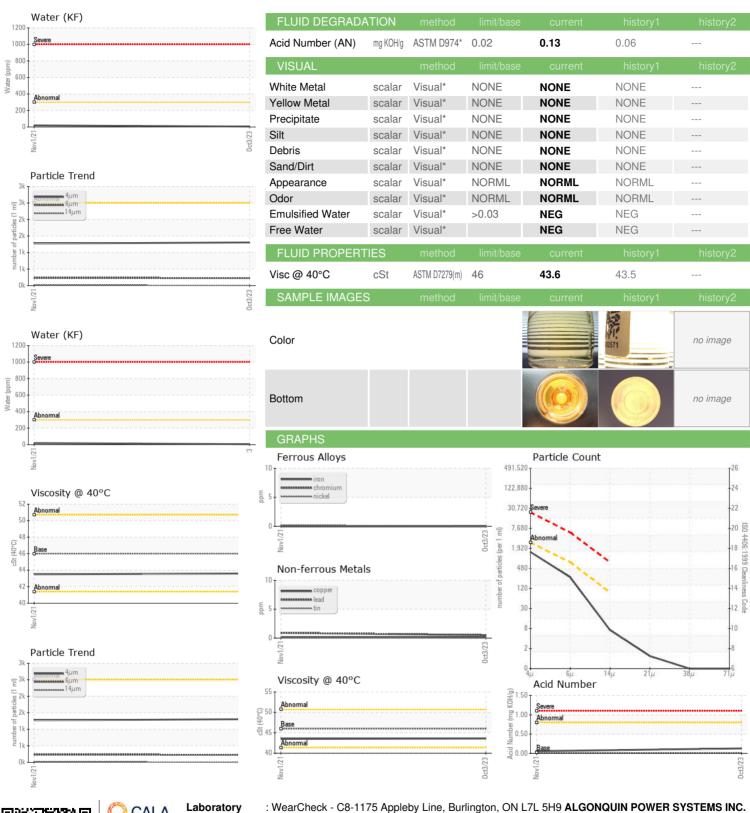
Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

			Nov2021	0ct2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0678260	WC0602571	
Sample Date		Client Info		03 Oct 2023	01 Nov 2021	
Machine Age	mths	Client Info		0	0	
Oil Age	mths	Client Info		60	24	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>15	0	0	
Chromium	ppm	ASTM D5185(m)	>4	0	0	
Nickel	ppm	ASTM D5185(m)	>2	0	<1	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)		<1	<1	
Aluminum	ppm	ASTM D5185(m)	>10	0	0	
Lead	ppm	ASTM D5185(m)		<1	<1	
Copper	ppm	ASTM D5185(m)	>5	<1	<1	
Tin	ppm	ASTM D5185(m)	>5	0	<1	
Antimony	ppm	ASTM D5185(m)		0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	<1	<1	
Barium	ppm	ASTM D5185(m)		<1	0	
Molybdenum	ppm	ASTM D5185(m)	0	0	0	
Manganese	ppm	ASTM D5185(m)		0	0	
Magnesium	ppm	ASTM D5185(m)	0	0	0	
Calcium	ppm	ASTM D5185(m)	0	1	1	
Phosphorus	ppm	ASTM D5185(m)	2.4	1	<1	
Zinc	ppm	ASTM D5185(m)	0	2	<1	
Sulfur	ppm	ASTM D5185(m)		20	30	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	0	<1	
Sodium	ppm	ASTM D5185(m)		0	0	
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	
Water	%	ASTM D6304*	>0.03	0.001	0.002	
ppm Water	ppm	ASTM D6304*	>300	5.5	19.4	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	1305	1273	
Particles >6µm		ASTM D7647	>640	229	230	
Particles >14μm		ASTM D7647	>80	6	12	
Particles >21µm		ASTM D7647	>20	1	3	
Particles >38μm		ASTM D7647	>4	0	0	
Particles >71μm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>18/16/13	18/15/10	17/15/11	



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CALA ISO 17025:2017 Accredited

Laboratory

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

Test Package

: WC0678260

: IND 2

: 02587644 : 5656710

Received : 06 Oct 2023 Diagnosed Diagnostician

: 10 Oct 2023 : Kevin Marson 354 DAVIS ROAD OAKVILLE, ON

CA L6J 2X1 Contact: Antonino Champ Fernando antonino Champ. fernando@algonquinpower.comT: (905)465-7065

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

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