



AIGI Environmental Incorporated Inspection Lab

Inspection Report

No: JC202302004

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Inspection items: Run-in test of Cyclone seal in sand slurry
(max. Concentration in general meaning and adding run-out)

Test Date: From Feb.28,2023

To: Mar.20,2023

Inspection results

Inspection item		Unit	Nameplate parameter	Technical requirements	Inspected data				Result
Performance Test	Leakage	mL/h	—	≤5.0	0*		0**		Pass
Wear Loss		mm	—	≤0.02	SC Rotary Face Thickness	Before	After	Loss	Pass
						15.620	15.620	0	
					SC Stationary Thickness	Before	After	Loss	Pass
						16.230	16.225	0.005	

Remarks: * It is the average leakage volume during the whole test time.

** It is the maximum average leakage volume in each measurement time unit

Running condition:

	Media	Pressure (MPa)	Temperature (°C)	Test Time	Speed (r/min)	Shaft (mm)	Flush or Quench
Performance Test	Sand Slurry ≤35%	0.05	18-48	8hours per day, running 15days. 120hours in total	1490-1493	60	No Flush, No Quench

Remarks: * Sand Slurry concentration definition means, for every 1000 grams of sand slurry, the percentage of the mass of hard solid sand particles obtained by removing water to the mass of the sand slurry. Test measured sand slurry concentration is 33% to 35%

Flush or Quench: This test was done without any flush or quench.

Shaft runout: In order to simulate the field conditions, the radial runout of 0.1mm is deliberately added to the standard testing.



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Test Result:

Product	Mechanical Seal	Model	318CYC Φ60mm
		Trademark	AIGI
		Inspection type	Performance Test
Manufacturer	AIGI Environmental Inc.	Grade of sample	Qualified
Address	81Suyuan Ave., Nanjing, China 211100	Starting date	Feb. 27,2023
Quantity of samples	1 set	Sample number	WT202301020
Standard	JB/T 4127.1-2013 "Mechanical Seal - Part1: Specification" GB/T 33509-2017 "General specification for mechanical seals" GB/T 14211-2019 "Test method of mechanical seal"		
Test items	Performance test, wear loss		
Result	The results of the items tested by the sample meet the requirements according to JB/T 4127.1-2013 "Mechanical Seal - Part1: Specification" and GB/T 33509-2017 "General Specification for Mechanical Seals". Date of issue: Mar.21,2023		
Remarks			

Reviewer:

刘昊

Chief inspector:

付利龙



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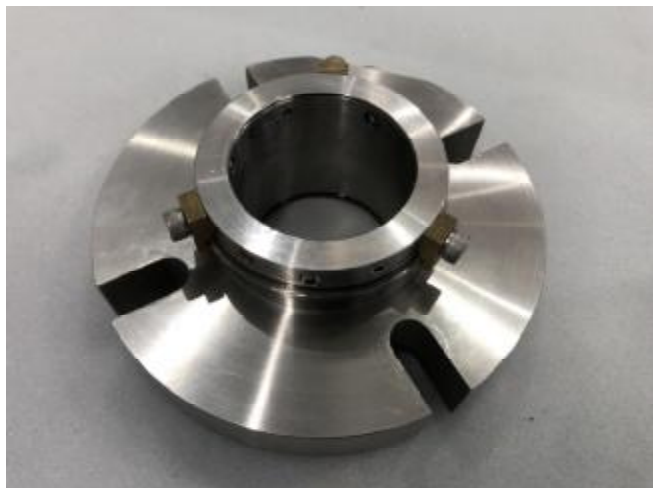
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Mechanical seal photos, before and after the test:

Before the test



After the test

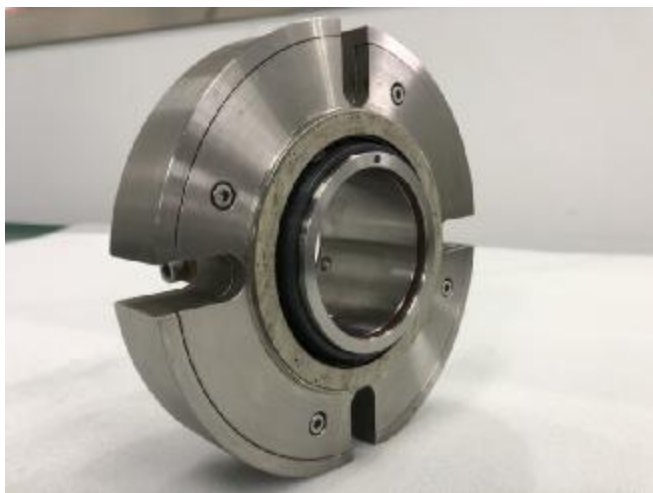


Mechanical seal entering the chamber photos, before and after the test

Before the test



After the test





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Mechanical seal parts disassembled photos, before and after the test:

Before the test



After the test



Mechanical seal sealing surface, before and after the test:

Before the test



After the test

