



AIGI Environmental Incorporated Inspection Lab

Inspection Report

No: JC202211009

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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	November 02,2022
Quantity of samples	1 set	Sample number	WT202211009
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: November 28, 2022		
Remarks			

Reviewer:

刘昊

Chief inspector:

付利龙



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Inspection results

Test Date: From Nov.02,2022

To Nov.25,2022

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	Cyclone SIC Rotary Face Thickness	Before	After	Loss	Pass
						15.620	15.620	0	
					SIC Stationary Thickness	Before	After	Loss	Pass
						16.230	16.230	0	

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 (℃)	Test Time	Speed (r/min)	Shaft (mm)
Performance Test	15% Sand Slurry	0.05	18-48	8 hours per day, running 15 days. 120 hours in total	1435-1442	60
No flush water						



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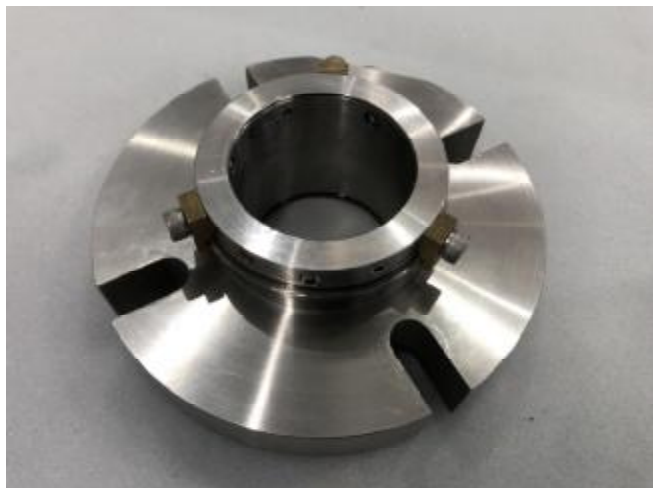
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Mechanical seal photos, before and after the test:

Before the test



After the test

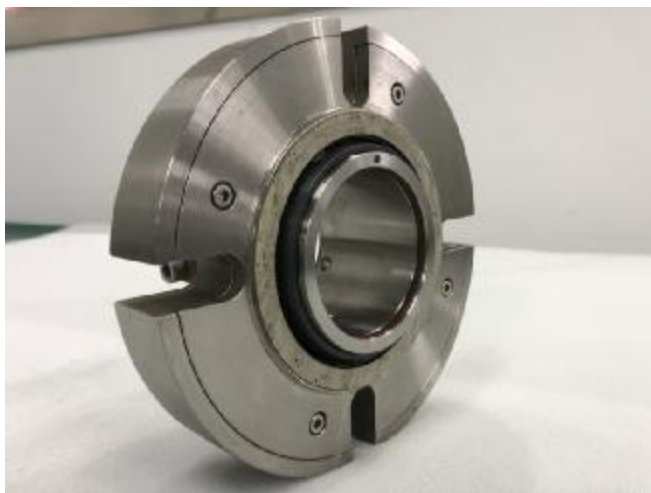


Mechanical seal entering the chamber photos, before and after the test

Before the test



After the test





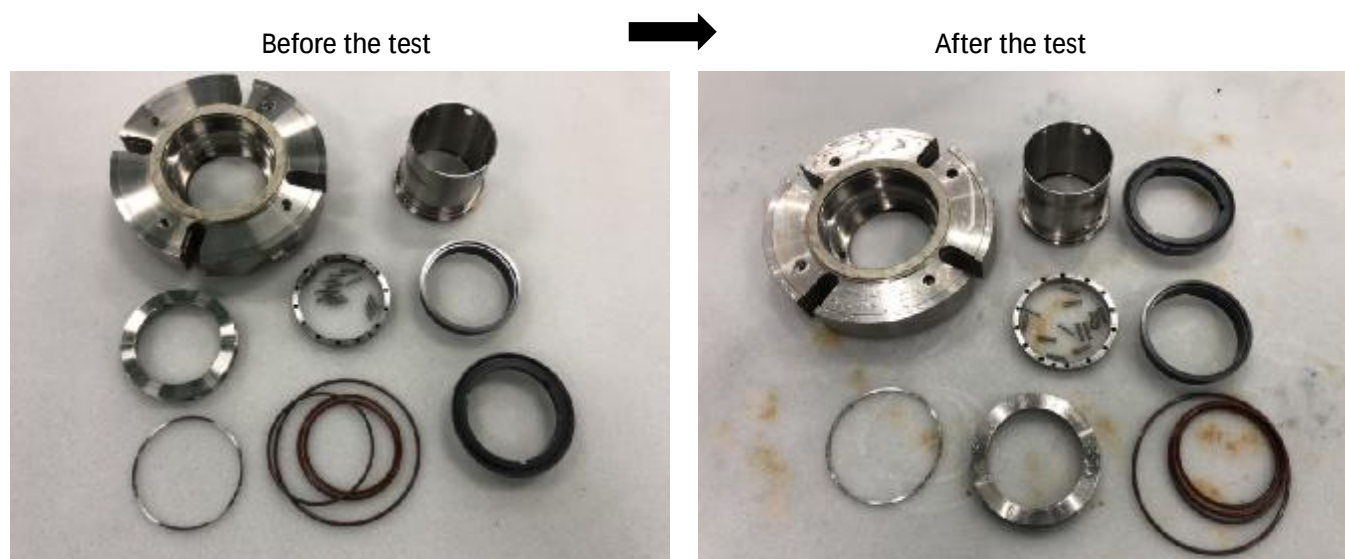
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Mechanical seal parts disassembled photos, before and after the test:



Mechanical seal sealing surface, before and after the test:

