



AIGI Environmental Incorporated Inspection Lab

Inspection Report

No: JC202211006

Page 1 of 4 pages

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 29,2022
Quantity of samples	1 set	Sample number	WT202211005
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 30, 2022		
Remarks			

Reviewer:

刘昊

Chief inspector:

付利龙



AIGI Environmental Incorporated Inspection Lab

Inspection Report

No: JC202211006

Page 2 of 4 pages

Inspection results

Test Date: From Oct.08,2022

To Oct.28, 2022

Inspection item		Unit	Nameplate parameter	Technical requirements	Inspected data				Result
Static pressure test	Leakage	mL/h	—	≤5.0	0				Pass
Performance Test	Leakage	mL/h	—	≤5.0	0*		0**		Pass
Wear Loss		mm	—	≤0.02	Cyclone SIC Rotary Face Thickness	Before	After	Loss	Pass
						15.600	15.600	0	
					SIC Stationary Thickness	Before	After	Loss	Pass
						16.250	16.250	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 (°C)	Test Time	Speed (r/min)	Shaft (mm)
Static pressure test	Sewage	2.0	21	15min	0	60
Performance Test	Sewage	2.0	21-56	8hours per day, running 15days. 120hours in total	3008-3014	60
No flush water						



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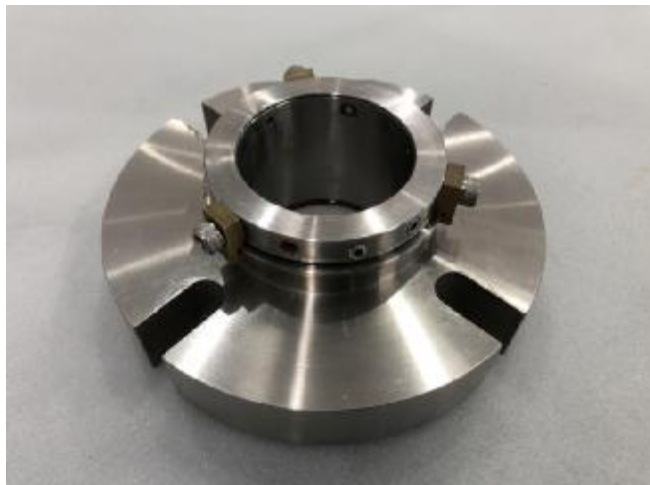
Inspection Report

No: JC202211006

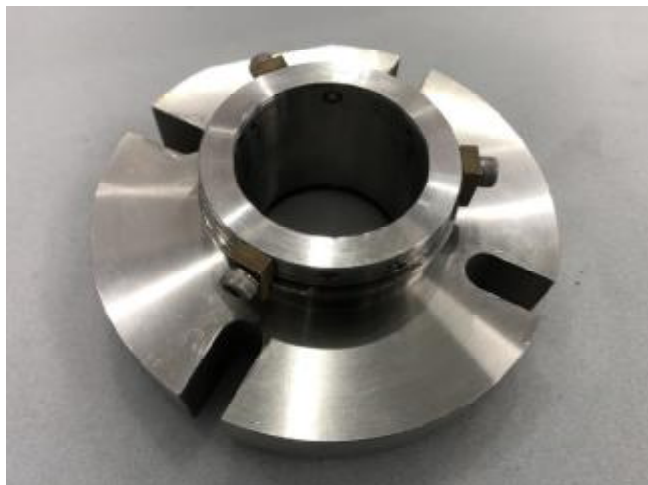
Page 3 of 4 pages

Mechanical seal photos, before and after the test:

Before the test

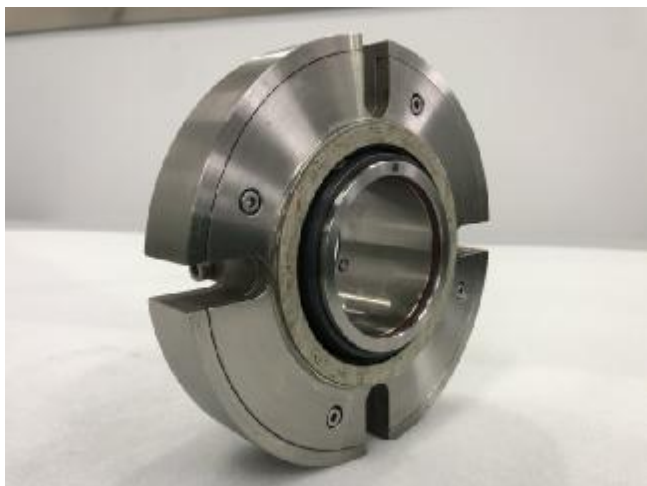


After the test



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

Before the test



After the test





AIGI Environmental Incorporated Inspection Lab

Inspection Report

No: JC202211006

Page 4 of 4 pages

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

