



**Accreditation No: 15773**

Accredited for compliance with  
ISO/IEC 17025 - Testing

WILO France\_t\_a\_WILO SE  
80 Bd de l'Industrie - CS 90527  
53005 Laval Cedex  
FR

Client Account Number: A01610786610  
Eurofins Quote Number: NSF6PH23010601

**Eurofins Sample Number NJ23AA8425-2**

<b>Original Received Date:</b>	13-Jul-2023
<b>Description:</b>	Stratos PICO-Z 25/0, 5-8
	Product Range: Stratos PICO-Z 20/0, 5-4, Stratos PICO-Z 20/0, 5-6; Stratos PICO-Z 20/0, 5-8; Stratos PICO-Z 25/0, 5-4; Stratos PICO-Z 25/0, 5-6; Stratos PICO-Z 25/0, 5-8; Stratos PICO-Z 30/0, 5-4; Stratos PICO-Z 30/0, 5-6; Stratos PICO-Z 30/0, 5-8
<b>Containers Submitted:</b>	4 Unit(s)

**Analysis**

**# AS/NZS 4020:2018 Compliance Testing**

Refer to Attachment # 1

Subcontracted Testing (if performed) is not covered under NATA Accreditation 15773.

NATA accreditation is associated with the testing methods to which the GLP report relates.

Method: AS/NZS 4020, Appendix A and in-house method TMP 191100 & TMP 191101

Analysis Date: 01-Aug-2023

**Sample Compliance Assessment**

NJ23AA8425-2 meets the requirement(s) for all listed test(s) where specifications were applied.

**Supplemental Information**

Samples were tested as received. Specifications (if) reported are as provided by the client.

# Accredited for compliance with ISO/IEC 17025:2017- Testing. NATA Accreditation Number 15773.



**Accreditation No: 15773**

Accredited for compliance with  
ISO/IEC 17025 - Testing

**Contracted Company: Eurofins ams Laboratories (Sydney)**

179 Magowar Road, Girraween, NSW 2145 Australia  
SampleReceiptAMS@eurofins.com

*TGA Licence No: MI-2021-LI-08995-1 APVMA Licence No: 6241*

*Questions about this report should be directed to your project manager or the general email listed above.*

**1. SAMPLE INFORMATION:**

**Methodology:** AS/NZS 4020, *Appendix A* and in-house method TMP-191100 & TMP-191101

<b>Cross Reference No.:</b>	Eurofins ams Laboratories Pty. Ltd., Report Reference No.: NJ23AA8425-1, test completed on 24/10/2023
<b>Interim Reporting:</b>	Not Applicable
<b>Batch No./ Manufacturing Date:</b>	2023
<b>Product Manufacturer:</b>	WILO SE 80 Bd de l'Industrie – CS 90527, 53005 Laval Cedex - France
<b>Sampling Organisation:</b>	WILO SE 80 Bd de l'Industrie – CS 90527, 53005 Laval Cedex - France
<b>General Composition:</b>	Refer to Section 7
<b>Product Use:</b>	In-Line
<b>Product Range:</b>	Stratos PICO-Z 20/0, 5-4; Stratos PICO-Z 20/0, 5-6; Stratos PICO-Z 20/0, 5-8; Stratos PICO-Z 25/0, 5-4; Stratos PICO-Z 25/0, 5-6; Stratos PICO-Z 25/0, 5-8; Stratos PICO-Z 30/0, 5-4; Stratos PICO-Z 30/0, 5-6; Stratos PICO-Z 30/0, 5-8
<b>Temperature Range:</b>	(0 - 65)°C
<b>Previous Testing:</b>	Not Applicable
<b>Sample selection for tests:</b>	As provided by the Submitting Organisation

<b>Sample storage conditions:</b>	Prepared and controlled as per AS/NZS 4020, <i>Appendix A</i>
<b>Extracts:</b>	Prepared as per AS/NZS 4020, <i>Appendices C, D, F &amp; H</i>
<b>Testing procedure:</b>	<p>Testing is based on the recommended 'in-the-product' exposure of 1 x Stratos PICO-Z 25/0, 5-8 with a scaling factor of 0.1 (1/10) applied at (65 ± 2)°C to cover a cold and hot water application up to ~65°C.</p> <p>Tests for Organic Compounds, Growth of Aquatic Micro-organisms and Mutagenic Activity, <i>Appendices D, E &amp; G</i>, for all non-metallic wetted components with equivalent or larger surface area to volume ratios are cross-referenced to Eurofins ams Laboratories Pty. Ltd. Certificate of Analysis Report No.: NJ23AA8425-1, test completed on 24/10/2023.</p> <p>Refer to Section 7 for product details.</p>
<b>Volume retention:</b>	~120mL

**2. SUMMARY OF RESULTS:**

APPENDIX	RESULTS
<b>C - TASTE (CLAUSE 6.2)</b>	PASSED at 'in-the-product' exposure with a scaling factor of 0.1 (1/10) applied
<b>D – APPEARANCE (COLOUR AND TURBIDITY) (CLAUSE 6.3)</b>	PASSED at 'in-the-product' exposure with a scaling factor of 0.1 (1/10) applied
<b>D – APPEARANCE (ORGANIC COMPOUNDS) (CLAUSE 6.8)</b>	PASSED at 'in-the-product' exposure with a scaling factor of 0.1 (1/10) applied  Cross referenced to Eurofins ams Laboratories Pty. Ltd. Certificate of Analysis Report No.: NJ23AA8425-1, test completed on 24/10/2023
<b>E - GROWTH OF AQUATIC MICRO-ORGANISMS (CLAUSE 6.4)</b>	PASSED at 'total immersion' exposure  Cross referenced to Eurofins ams Laboratories Pty. Ltd. Certificate of Analysis Report No.: NJ23AA8425-1, test completed on 24/10/2023
<b>F - CYTOTOXIC ACTIVITY (CLAUSE 6.5)</b>	PASSED at 'in-the-product' exposure with a scaling factor of 0.1 (1/10) applied
<b>G - MUTAGENIC ACTIVITY (CLAUSE 6.6)</b>	PASSED at 'in-the-product' exposure with a scaling factor of 0.1 (1/10) applied  Cross referenced to Eurofins ams Laboratories Pty. Ltd. Certificate of Analysis Report No.: NJ23AA8425-1, test completed on 24/10/2023
<b>H - METALS (CLAUSE 6.7)</b>	PASSED at 'in-the-product' exposure with a scaling factor of 0.1 (1/10) applied

**Based on completion and evaluation of all tests on 20/10/2023, the product, Stratos PICO-Z 25/0, 5-8; fully complied with the test requirements of AS/NZS 4020:2018 to cover a cold and hot water application up to ~65°C, at the recommended 'in-the-product' exposure of 1 x Stratos PICO-Z 25/0, 5-8 with a scaling factor of 0.1 (1/10) applied at (65 ± 2)°C.**

Testing although determined by the relevant product Standard, is generally recognised for up to 5 years by the certifying body, providing the testing procedures remain the same, and the background information on all wetted parts and the product are adequately documented. Also, the results stated in the report relate to the samples of the product submitted for testing. Any changes in the material formulation and supplier/manufacture of all wetted items, the process of manufacture, the method of application, or the surface area-to-volume ratio in the end-use, could affect the suitability of the product for use in contact with drinking water, and re-testing may be required before this actual time frame, governed by the completion and evaluation date.

**3. TASTE:**

**Methodology:** AS/NZS 4020, *Appendix C* and in-house method TMP-191130.

**Exposure:** 'in-the-product'; 1 x Stratos PICO-Z 25/0, 5-8

**Extraction temperature:** (65 ± 2)°C      **Scaling factor:** 0.1 (1/10)      **Number of Panellists:** 5

**No. of samples for Chlorine-free extract:** 1      **No. of samples for Chlorinated extract:** 1

Description	Extract	Test Water	Taste (+ / -)	Taste Description (No. of tasters)	Test Dilution *(Taste intensity )
Test Blank	First 24h	Chlorine-free	NA	NA	NA
	Final 9-day	Chlorine-free	-	-	-
Sample	First 24h	Chlorine-free	NA	NA	NA
	Final 9-day	Chlorine-free	-	-	-
Test Blank	First 24h	Chlorinated	NA	NA	NA
	Final 9-day	Chlorinated	-	-	-
Sample	First 24h	Chlorinated	NA	NA	NA
	Final 9-day	Chlorinated	-	-	-

+ Taste detected      - No taste detected      NA Not applicable

**AS/NZS 4020 test requirement: Minimum of 4 tasters with no discernible taste at the first 1/2 dilution.**

**Figure in brackets is the number of panellists detecting a taste at this dilution.**

Note:

1. Tasters are given a 14-point scale to describe its intensity, with minimum of 1 as extremely weak, and maximum of >14 as extremely strong. An average of all tasters represents taste intensity.
2. First extract becomes final extract.

**EVALUATION:**

On the basis of these results the samples of this product referred to in this report have complied with the test requirements of AS/NZS 4020:2018, Taste; *Appendix C*.

**4. APPEARANCE: COLOUR AND TURBIDITY**

**Methodology:** AS/NZS 4020, *Appendix D* and in-house methods TMP-191140 and TMP-191106.

**Exposure:** 'in-the-product'; 1 x Stratos PICO-Z 25/0, 5-8

**Extraction temperature:** (65 ± 2)°C                      **Scaling factor:** 0.1 (1/10)

**No. of samples tested:** 1

	a) <b>TRUE COLOUR:</b> Hazen Units <b>(HU)</b>		b) <b>TURBIDITY:</b> Nephelometric Turbidity Units <b>(NTU)</b>	
	First 24h	Final 9-day	First 24h	Final 9-day
<b>Sample Extract</b> pH (9-day) = 5.65	NA	<2	NA	0.07
<b>Test Blank</b> pH (9-day) = 5.97	NA	<2	NA	0.06
<b>FINAL RESULT</b>	NA	<2	NA	0.01
<b>AS/NZS 4020 Test sample requirements</b>	<b>≤5</b>		<b>≤0.5</b>	

< = less than    ≤ = less than or equal to                      NA Not applicable  
 First extract becomes final extract

For test a), test extractions were performed by Eurofins | ams. The test extracts were subsequently subcontracted to Eurofins | Environment Testing for assessment (NATA Accreditation No. 1261), Report No. 1016635-W-V2. In-house Method based on APHA 2120 B.

**EVALUATION:**

On the basis of these results the samples of this product referred to in this report have complied with the test requirements of AS/NZS 4020:2018, Appearance (Colour & Turbidity); *Appendix D*.

**5. CYTOTOXIC ACTIVITY:**

**Methodology:** AS/NZS 4020, *Appendix F* and in-house method TMP-191160.

**Exposure:** 'in-the-product'; 1 x Stratos PICO-Z 25/0, 5-8

**Extraction temperature:** (65 ± 2)°C                      **Scaling factor:** 0.1 (1/10)

**Extracts:** 24h, 48h & 72h                                      **No. of samples tested:** 1

The test sample extracts from the product, as well as the test blank (test water) were used to prepare a nutrient growth medium, subsequently utilised to grow a monkey kidney cell line (VERO ATCC CCL 81).

<b>Microscopic Examination</b>	<b>Test Sample Extract (24h, 48h and 72h)</b>	<b>Test Blank (24h, 48h and 72h)</b>
Cell Morphology:	Satisfactory	Satisfactory
Monolayer: Confluence/Healthy Growth as ~%	100%	100%

NA = Not applicable

Cytotoxicity was detected with Zinc Sulphate, used as a positive control and analysed at 0.4mM of Zinc.

Water for Irrigation was included with the test blank as negative control.

**AS/NZS 4020 test sample requirements: 1) Non-cytotoxic response- confluent monolayer similar to test blank.**

**2) Cytotoxic response- irregularly shaped cells & cell death similar to positive control 0.4mM Zinc Sulphate.**

**EVALUATION:**

On the basis of these results the samples of this product referred to in this report have complied with the test requirements of AS/NZS 4020:2018, Cytotoxic Activity; *Appendix F*.



**6. METALS:**

**Methodology:** AS/NZS 4020, Appendix H and in-house methods TMP-191180 and TMP-191230.

**Exposure:** 'in-the-product'; 1 x Stratos PICO-Z 25/0, 5-8

**Extraction temperature:** (65 ± 2)°C

**Scaling factor:** 0.1 (1/10)

**Extracts:** 9-day

**No. of samples for I:** 1

**No. of samples for II:** 1

Element	AS/NZS 4020: Maximum Allowable Concentration mg/L (ppm)	Limit of Reporting mg/L (ppm)	Test Blank mg/L (ppm)	Sample Extract I mg/L (ppm)	Sample Extract II mg/L (ppm)	FINAL RESULT I mg/L (ppm)	FINAL RESULT II mg/L (ppm)
Aluminium <sup>1</sup> (Al)	0.2	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Antimony <sup>1</sup> (Sb)	0.003	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic <sup>1</sup> (As)	0.01	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium <sup>1</sup> (Ba)	0.7	0.001	<0.001	0.001	0.002	0.001	0.002
Boron <sup>1</sup> (B)	1.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Cadmium <sup>1</sup> (Cd)	0.002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chromium <sup>1</sup> (Cr)	0.05	0.001	<0.001	0.001	0.001	0.001	0.001
Copper <sup>1</sup> (Cu)	2	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Iron <sup>1</sup> (Fe)	0.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Lead <sup>1</sup> (Pb)	0.01	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Manganese <sup>1</sup> (Mn)	0.1	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Mercury <sup>1</sup> (Hg)	0.001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Molybdenum <sup>1</sup> (Mo)	0.05	0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Nickel <sup>1</sup> (Ni)	0.02	0.001	<0.001	<0.001	0.001	<0.001	0.001
Selenium <sup>1</sup> (Se)	0.01	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver <sup>1</sup> (Ag)	0.1	0.001	<0.001	<0.001	<0.001	<0.001	<0.001

< = less than mg/L = milligram per litre 1 = ICPMS – In-house Method Code: LTM-MET 3040

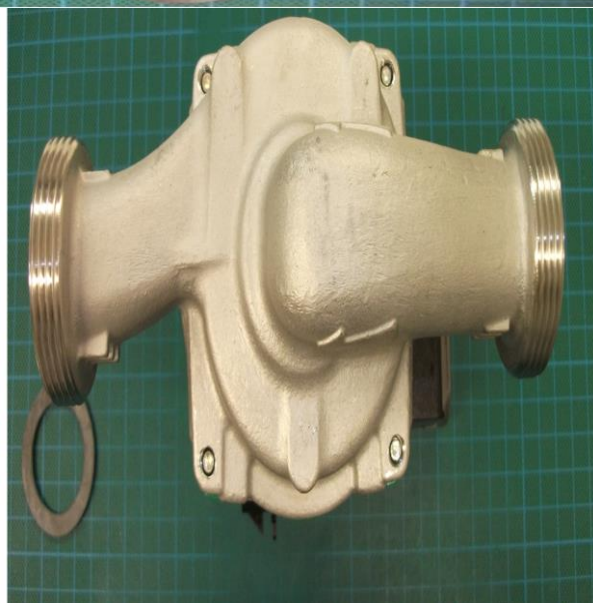
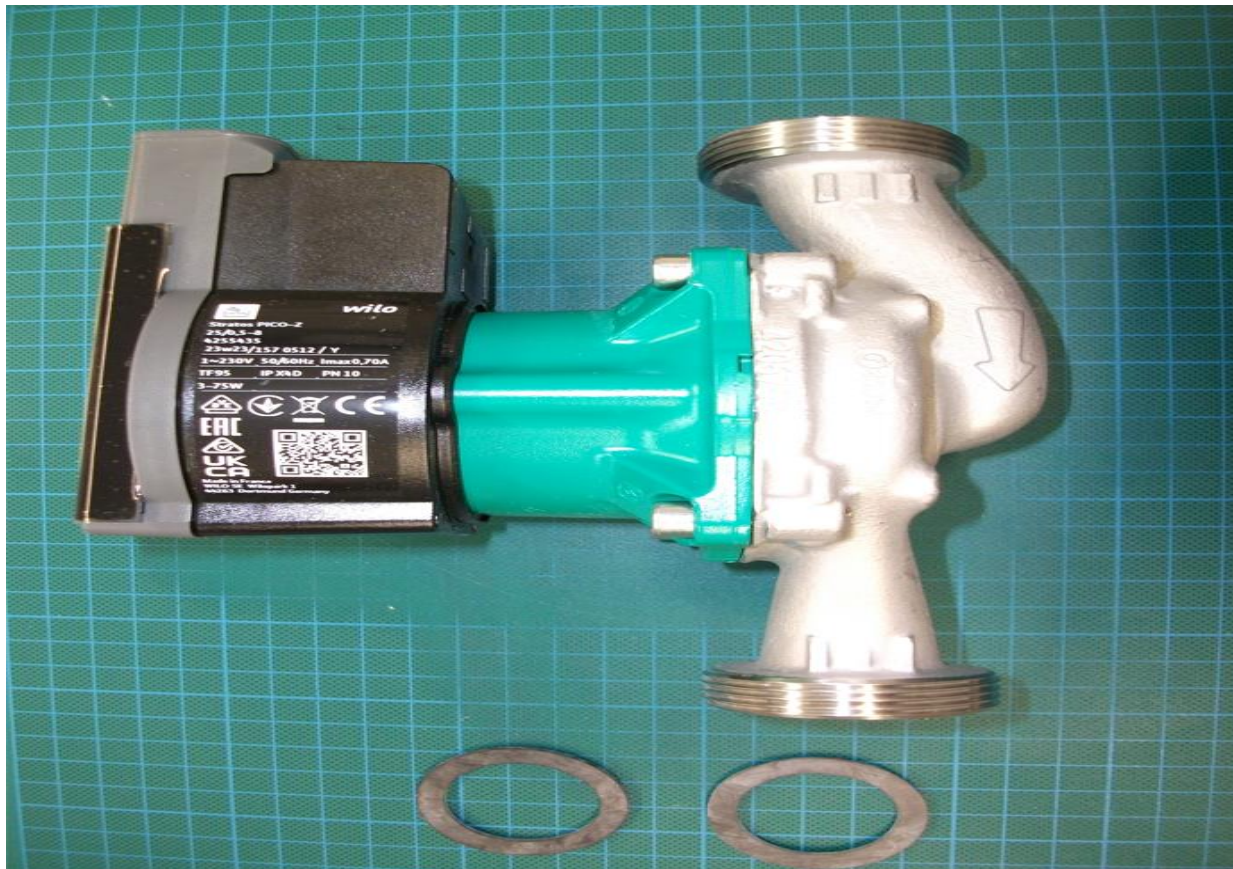
First extract becomes final extract. NA = Not applicable

Test extractions were performed by Eurofins ams Laboratories Pty. Ltd. The test extracts were subsequently subcontracted to Eurofins | Environment Testing for assessment (NATA Accreditation No. 1261), Report No. 1016635-W-V2. In-house Method based on US EPA Method 3010A & US EPA Method 6020B.

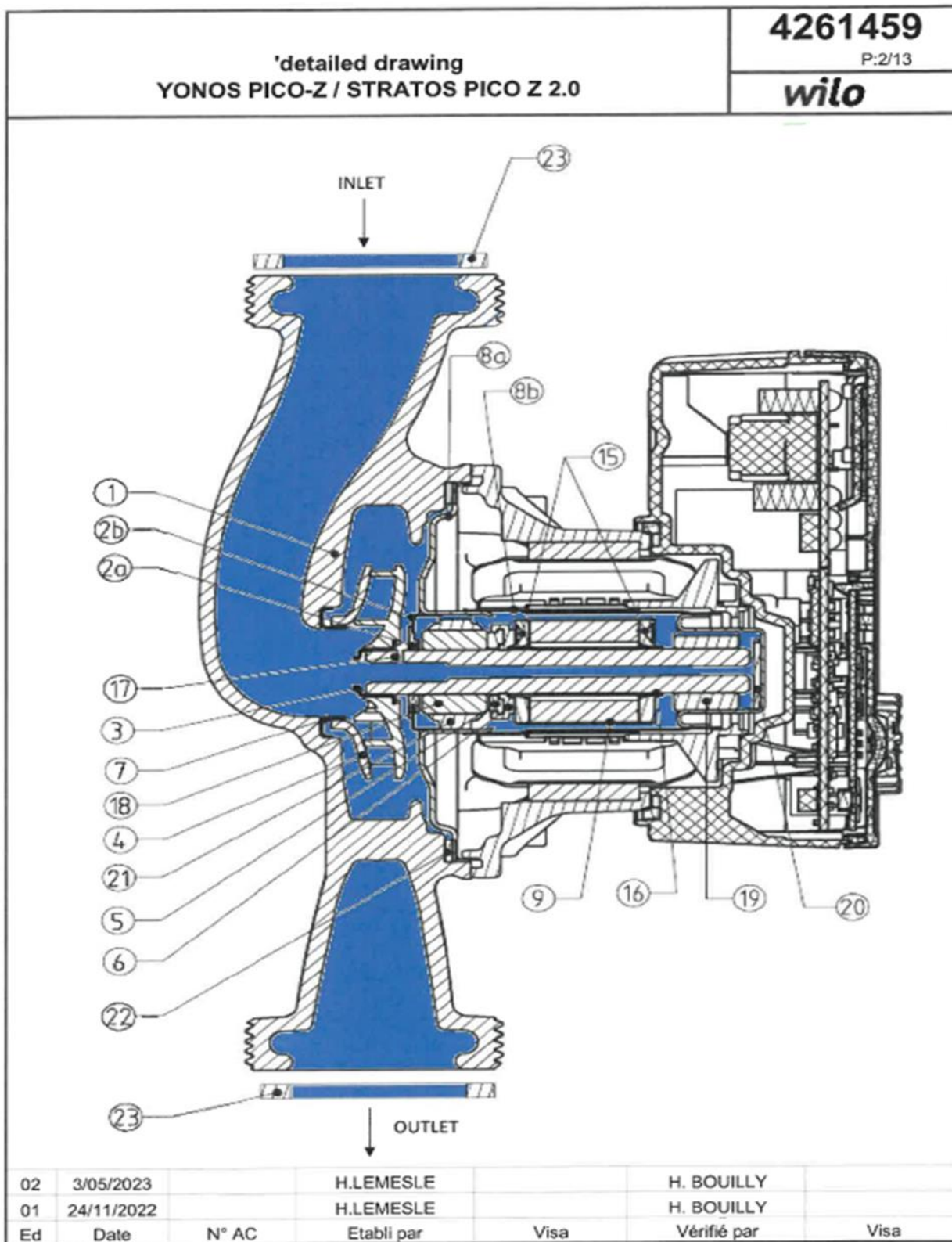
**EVALUATION:**

On the basis of these results the samples of this product referred to in this report have complied with the test requirements of AS/NZS 4020:2018, Metals; Appendix H.

7.1. PHOTOS OF TEST SAMPLE:



7.II. TECHNICAL DRAWING:





7.III. BILL OF MATERIAL (BOM):

INDICE TECHNIQUE		Technical Index		Approvals				Water-Washed surface (mm <sup>2</sup> )												
Seq. N°	DESIGNATION DES COMPOSANTS for: Stratos PICO-Z 250,5-8	PART N°	Material designation as per norm or standard	KTW release	WRAS release	ACS release	Supplier	Seq. Supplier												
1	CORPS-USINE-ECM-D25-180-SS	MACHINED PUMP CASING	Stainless steel	GXC7NM6 19-11-2-AT(1-4019-AT)			Dongying Yoheng Precision Metal Co	H5	23400											
2a	BAGUE FLOTTANTE	FLOATING RING	POM-C	Astral Ultralim - S2320.003 AQUA AT UN	0046	0046	FAVELAY	G8	720											
2b	SUPPORT BAGUE FLOTTANTE	FLOATING RING SUPPORT	Stainless steel	X6Cr17 (1-4016)			METALIS	U	1350											
3	INSERT DE ROUE	IMPELLER INSERT	Stainless steel	X2CrNi19-11 (1-4306)			PRESSPART	A6	395											
4	ROUE D48,5	IMPELLER D48,5	PPG-GF30	FE 1630P-W-73701	0036	0036	C.E.L.S.P.A.	E6	9405											
5	GRAIN DE BUTEE	THRUST BEARING	CERAMIC Al2O3	RAPALLIGHT	0021	0021	RAUSCHERT GmbH	A8	650											
6	SUPPORT BUTEE	THRUST BEARING SUPPORT	EPDM 80 SHORE	EPDM 07006-80	0043	0043	TUMEDEI S.P.A.	E8	1140											
7	BAGUE JOINT ROUE	SUCTION RING	Stainless steel	X5CrNi18-10 (1-4301)			TURNING PRECISION	H2	1130											
8a	FLASQUE TUBE PORTEUR	CARTRIDGE ENDSHELD	Stainless steel	X5CrNi18-10 (1-4301)			LEMAN INDUSTRIE	J	4540											
8b	CHEMISE TUBE PORTEUR	CARTRIDGE CAN	Stainless steel	X2CrNiMo17-12-2 (1-4304)			PRESSPART	A6	3925											
8c	PALIER TUBE PORTEUR	CARTRIDGE BACK BEARING	Stainless steel	X2CrNi18-9 (1-4307)			PRESSPART	A6	800											
9	CHEMISE ROTOR	ROTOR SLEEVE	Stainless steel	X2CrNi18.9 (1-4307) or X2CrNi19.11 (1-4306)			PRESSPART	A6	2810											
10	JOUE ROTOR	ROTOR END RING	Stainless steel	X2CrNi18-9 (1-4307) or X5CrNi18-10 (1-4301)			SAXONIA-FRANKE AG	A2	740											
11	CHEMISE ARBRE	ROTOR SHAFT SLEEVE	Stainless steel	X2CrNi18-9 (1-4307)			PRESSPART	A6	60											
12	ARBRE ROTOR	ROTOR SHAFT	CERAMIC Al2O3	HILOX 961 BROWN	0024	0024	MORGAN ADVANCED CERAMICS	W	2340											
13	COUSSINET AVANT	FRONT BEARING	Resin impregnated carbon graphite 3% Carbon graphite	HT 204 HPC835	0007 0039	0007 0039	EUROCARBO	L	910											
14	COUSSINET ARRIERE	BACK BEARING	Resin impregnated carbon graphite 3% Carbon graphite	HT 204 HPC835	0007 0039	0007 0039	EUROCARBO	L	920											
15	BAGUE DE FRICTION	FRICTION PLATE	ACIER INOX	X2CrNi18-9 (1-4301)			METALIS	U	240											
16	SUPPORT PALIER AVANT	FRONT BEARING SUPPORT	Stainless steel	X2CrNi18-9 (1-4301)			EREDI BATELLI	D7	830											
17	JOINT DE CORPS	PUMP GASKET	EPDM 70 SHORE	7EP1197	0004	0004	Le Joint Français	R	470											
18	JOINT PLAT RU	PLAT GASKET	EPDM 80 SHORE	EPDM 07006-80	0043	0043	TUMEDEI S.P.A.	E8	400											
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%; text-align: center;">S1</td> <td style="width:10%; text-align: center;">cm<sup>2</sup></td> <td style="width:10%; text-align: center;">Surface of all water washed materials</td> <td style="width:10%; text-align: center;">57175</td> </tr> <tr> <td style="width:10%; text-align: center;">S2</td> <td style="width:10%; text-align: center;">cm<sup>2</sup></td> <td style="width:10%; text-align: center;">Surface of organic materials</td> <td style="width:10%; text-align: center;">16955</td> </tr> <tr> <td colspan="2"></td> <td style="width:10%; text-align: center;">RATIO S2/S1</td> <td style="width:10%; text-align: center;">0.297</td> </tr> </table>									S1	cm <sup>2</sup>	Surface of all water washed materials	57175	S2	cm <sup>2</sup>	Surface of organic materials	16955			RATIO S2/S1	0.297
S1	cm <sup>2</sup>	Surface of all water washed materials	57175																	
S2	cm <sup>2</sup>	Surface of organic materials	16955																	
		RATIO S2/S1	0.297																	
Stratos PICO-Z 250/5-8 Volume: 139 mL																				


  

02	03.05.23		H.LEMESLE		TABLE OF THE WATER-WASHED Yonos PICO-Z & Stratos PICO-Z 2.0				
01	15.09.22		H.LEMESLE						
ED	DATE	N° AC	NOM	VISA					
VERIFIE		PAR	H. BOULLIY		<b>wilo</b>	N° 4261459	P11/13		

**7.IV. DESCRIPTION OF PRODUCT RANGE:**

'DESCRIPTION OF THE PRODUCT RANGE YONOS PICO-Z & STRATOS PICO-Z 2.0			<b>4261459</b> <small>P:1/13</small> 
Stratos PICO-Z Yonos PICO-Z	20 / 0,5 - 6 20 / 0,5 - 6	150	Pipe to pipe distance (mm) Default ( 180 mm ) or value
_____ MODEL NAME (Yonos with HEM display / Stratos PICO-Z with TFT display)			_____ Maximum manometric height  _____ Minimum manometric height  _____ Ø of pipe connection (mm)
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <p><b>LISTING DES PRODUITS:</b></p> <p>Yonos PICO-Z 15/0,5-4 130</p> <p>Yonos PICO-Z 15/0,5-4 140</p> <p>Yonos PICO-Z 20/0,5-4 150</p> <p>Yonos PICO-Z 20/0,5-6 150</p> <p>Yonos PICO-Z 20/0,5-6 158</p> <p>Yonos PICO-Z 20/0,5-8 150</p> <p>Yonos PICO-Z 25/0,5-4 180</p> <p>Yonos PICO-Z 25/0,5-6 130</p> <p>Yonos PICO-Z 25/0,5-6 180</p> <p>Stratos PICO-Z 20/0,5-4</p> <p>Stratos PICO-Z 20/0,5-6</p> <p>Stratos PICO-Z 20/0,5-8</p> <p>Stratos PICO-Z 25/0,5-4</p> <p>Stratos PICO-Z 25/0,5-6</p> <p>Stratos PICO-Z 25/0,5-8</p> <p>Stratos PICO-Z 30/0,5-4</p> <p>Stratos PICO-Z 30/0,5-6</p> <p>Stratos PICO-Z 30/0,5-8</p> </div>			
02	3/05/2023	H,LEMESLE	H. BOUILLY
01	24/11/2022	H,LEMESLE	H. BOUILLY
Ed	Date	N° AC	Etabli par      Visa      Vérifié par      Visa

**7.V. METALLURGICAL TEST REPORT:**



**UNIVERSAL SCIENTIFIC LABORATORY PTY LTD**  
 ABN 75 093 281 764  
 UNIT 12, 65 MARIGOLD STREET, REVESBY NSW 2212, AUSTRALIA  
 PO BOX 49, MILPERRA NSW 2214, AUSTRALIA  
 TELEPHONE: +61(2) 9771 5592 • FACSIMILE: +61(2) 9771 2482  
 EMAIL: info@usl.com.au WEBSITE: www.usl.com.au

## ANALYSIS REPORT

**ORIGIN:** AMS LABORATORIES P/L  
**DESCRIPTION:** Housing of "Wilo" Recirculating Pump.  
**ORDER NO:** 7903  
**ALLOY CODE** A351 CF8M

**REPORT NO:** 23/2904  
**REPORT DATE** 12 /10/23  
**LOG BOOK NO:** 230362  
**HEAT NO:**

**Sample No.**

**UNITS** W/W %

	C	S	P	Si	Mn	Cr	Ni	Cu	Mo	V	Ti
#1	.03	<.01	.02	.61	.78	18.9	9.9	.32	2.2	.06	.01

**SPECIFICATION LIMITS**

<b>MAX:</b>	.08	.040	.040	-	1.50	21.0	12.0		3.0		
<b>MIN:</b>						18.0	9.0		2.0		

**ANALYTICAL TECHNIQUE(S)**

<b>Method</b>	P016	P016	E353	M100	M100	M100	M100	M100	M100	M100	M100
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**MU**


MU= Measurement Uncertainty

**REMARKS:**  
 WIL NJ23AA8425-1/-2

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This analysis was performed at: 12, 65 Marigold St., Revesby

To the best knowledge of the company the results on this report are correct, however no legal responsibility will be accepted for or arising from their use. Samples were tested as received unless stated otherwise. The report shall not be reproduced unless in full. Measurement uncertainty data are available on request.



**WILLIAM TING**  
 AUTHORISING OFFICER

14/10/23



Accredited for compliance to ISO/IEC 17025 testing.  
 NATA accredited laboratory No. 492  
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