

QFT LABORATORY, LLC. Test Report

1041 Glassboro Road Suite D-1, Williamstown NJ 08094
PHONE 954-303-1819 www.enviroteklab.com
IAPMO ID# 000102

Send To:

Joy Delaney

Staffordshire, UK

Result: Passed

Date: 08/09/2022

Customer Name: Doulton Water Filters

Tested To: Standard PFAS Reduction PT 200%

Trade Designation/Model Number: Ultra Sterasyl

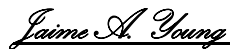
Test Type: Qualification

Project Manager: Jaime Young

Thank you for having your product tested by QFT Laboratory, LLC.

Please contact your Project Manager if you have any questions or concerns pertaining to this report.

Report Authorization


Jaime A. Young
Lab Director

Date: 08/09/2022

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Standard 53 PFAS Reduction PT 200%: Passed

Manufacturer's Name: Doulton Water Filters

Sample Type: Qualification

Product: Plumbed in

Flow Rate: 0.3 lpm

Filter Capacity: 3000 liters

Cycle: as per manufacture's pattern

Conditioning Procedure: Follow manufacturer instructions

Physical Description of Sample: Gravity Candles fitted into SS Gravity Housing

Performance Indicator Device: No, Test to 3000 liters

Test Description: NSF 53 PFAS Reduction Testing

Trade Designation/Model Number: Ultra Sterasyl

Unit Volume: 1 L

Performance Standard: NSF 53 – 2021

Pass/Fail Criteria (PFOA+PFOS Combined Maximum Product Water Concentration): 0.07 µg/L

Water Characteristics

| Sample Point | pH (7.5±0.5) | Temperature (20±2.5°C) | Turbidity (<1 NTU) | TDS (200-500) mg/L | TOC (1.0-2.0) mg/L |
|----------------|--------------|------------------------|--------------------|--------------------|--------------------|
| Start | 7.55 | 20.5 | 0.45 | 310 | 1.3 |
| 150 | 7.51 | 20.3 | 0.42 | 312 | 1.3 |
| 300 | 7.53 | 20.5 | 0.45 | 309 | 1.3 |
| 450 | 7.52 | 20.5 | 0.44 | 310 | 1.4 |
| 600 | 7.49 | 20.4 | 0.41 | 315 | 1.4 |
| 750 | 7.43 | 20.5 | 0.45 | 317 | 1.3 |
| 900 | 7.51 | 20.3 | 0.42 | 315 | 1.3 |
| 1050 | 7.52 | 20.2 | 0.41 | 317 | 1.3 |
| 1200 | 7.53 | 20.1 | 0.42 | 316 | 1.3 |
| 1350 | 7.51 | 20.2 | 0.41 | 315 | 1.3 |
| 1500 | 7.52 | 20.1 | 0.42 | 317 | 1.4 |
| 1650 | 7.53 | 20.3 | 0.41 | 316 | 1.3 |
| 1800 | 7.51 | 20.2 | 0.41 | 317 | 1.3 |
| 1950 | 7.52 | 20.3 | 0.43 | 315 | 1.3 |
| 2100 | 7.53 | 20.1 | 0.44 | 316 | 1.3 |
| 2250 | 7.52 | 20.2 | 0.45 | 314 | 1.3 |
| 2400 | 7.51 | 20.3 | 0.42 | 312 | 1.3 |
| 2550 | 7.53 | 20.2 | 0.46 | 310 | 1.3 |
| 2700 | 7.51 | 20.4 | 0.43 | 312 | 1.3 |
| 2850 | 7.52 | 20.2 | 0.42 | 314 | 1.3 |
| 3000 | 7.53 | 20.1 | 0.41 | 312 | 1.3 |
| Average | 7.52 | 20.3 | 0.43 | 314 | 1.3 |

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PFOA Filter #1 Data Summary Table

| Accumulated | Challenge | Filter 1 |
|------------------------|------------------|-----------------|
| Volume (Liters) | PFOA | PFOA |
| Start | 0.50 | 0.01 |
| 150 | 0.57 | 0.01 |
| 300 | 0.52 | 0.01 |
| 450 | 0.51 | 0.01 |
| 600 | 0.50 | 0.02 |
| 750 | 0.46 | 0.03 |
| 900 | 0.48 | 0.01 |
| 1050 | 0.43 | 0.03 |
| 1200 | 0.55 | 0.03 |
| 1350 | 0.45 | 0.03 |
| 1500 | 0.54 | 0.02 |
| 1650 | 0.46 | 0.02 |
| 1800 | 0.51 | 0.03 |
| 1950 | 0.45 | 0.03 |
| 2100 | 0.52 | 0.03 |
| 2250 | 0.49 | 0.03 |
| 2400 | 0.44 | 0.01 |
| 2550 | 0.53 | 0.03 |
| 2700 | 0.50 | 0.03 |
| 2850 | 0.50 | 0.04 |
| 3000 | 0.49 | 0.05 |

PFOA Reporting Limit: 0.01 µg/L

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PFOS Filter #1 Data Summary Table

| Accumulated | Challenge | Filter 1 |
|------------------------|------------------|-----------------|
| Volume (Liters) | PFOS | PFOS |
| Start | 1.12 | <0.01 |
| 150 | 0.98 | <0.01 |
| 300 | 0.96 | <0.01 |
| 450 | 0.95 | <0.01 |
| 600 | 0.95 | <0.01 |
| 750 | 0.99 | <0.01 |
| 900 | 1.11 | <0.01 |
| 1050 | 0.99 | 0.01 |
| 1200 | 0.98 | 0.01 |
| 1350 | 0.99 | 0.02 |
| 1500 | 0.98 | 0.01 |
| 1650 | 1.02 | 0.01 |
| 1800 | 0.92 | 0.01 |
| 1950 | 0.96 | 0.01 |
| 2100 | 1.11 | 0.01 |
| 2250 | 0.96 | 0.01 |
| 2400 | 0.90 | 0.01 |
| 2550 | 1.01 | 0.02 |
| 2700 | 1.06 | 0.02 |
| 2850 | 0.92 | 0.02 |
| 3000 | 1.00 | 0.02 |

PFOS Reporting Limit: 0.01 µg/L

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PFOA Filter #2 Data Summary Table

| Accumulated | Challenge | Filter 2 |
|------------------------|------------------|-----------------|
| Volume (Liters) | PFOA | PFOA |
| Start | 0.50 | 0.01 |
| 150 | 0.57 | 0.01 |
| 300 | 0.52 | 0.01 |
| 450 | 0.51 | 0.01 |
| 600 | 0.50 | 0.01 |
| 750 | 0.46 | 0.02 |
| 900 | 0.48 | 0.01 |
| 1050 | 0.43 | 0.02 |
| 1200 | 0.55 | 0.03 |
| 1350 | 0.45 | 0.02 |
| 1500 | 0.54 | 0.03 |
| 1650 | 0.46 | 0.03 |
| 1800 | 0.51 | 0.03 |
| 1950 | 0.45 | 0.03 |
| 2100 | 0.52 | 0.04 |
| 2250 | 0.49 | 0.04 |
| 2400 | 0.44 | 0.03 |
| 2550 | 0.53 | 0.03 |
| 2700 | 0.50 | 0.03 |
| 2850 | 0.50 | 0.04 |
| 3000 | 0.49 | 0.05 |

PFOA Reporting Limit: 0.01 µg/L

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PFOS Filter #2 Data Summary Table

| Accumulated | Challenge | Filter 2 |
|-----------------|-----------|----------|
| Volume (Liters) | PFOS | PFOS |
| Start | 1.12 | <0.01 |
| 150 | 0.98 | <0.01 |
| 300 | 0.96 | <0.01 |
| 450 | 0.95 | <0.01 |
| 600 | 0.95 | <0.01 |
| 750 | 0.99 | <0.01 |
| 900 | 1.11 | <0.01 |
| 1050 | 0.99 | 0.01 |
| 1200 | 0.98 | 0.01 |
| 1350 | 0.99 | 0.03 |
| 1500 | 0.98 | 0.01 |
| 1650 | 1.02 | 0.01 |
| 1800 | 0.92 | 0.01 |
| 1950 | 0.96 | 0.01 |
| 2100 | 1.11 | 0.01 |
| 2250 | 0.96 | 0.01 |
| 2400 | 0.90 | 0.02 |
| 2550 | 1.01 | 0.01 |
| 2700 | 1.06 | 0.02 |
| 2850 | 0.92 | 0.02 |
| 3000 | 1.00 | 0.02 |

PFOS Reporting Limit: 0.01 µg/L

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PFOA & PFOS Data Summary Filter 1

| Accumulated | Challenge | Filter 1 | Passing |
|------------------------|------------------|------------------|-----------------|
| Volume (Liters) | PFOA+PFOS | PFOA+PFOS | Criteria |
| Start | 1.62 | 0.01 | Passed |
| 150 | 1.55 | 0.01 | Passed |
| 300 | 1.48 | 0.01 | Passed |
| 450 | 1.46 | 0.01 | Passed |
| 600 | 1.45 | 0.02 | Passed |
| 750 | 1.45 | 0.03 | Passed |
| 900 | 1.59 | 0.01 | Passed |
| 1050 | 1.42 | 0.04 | Passed |
| 1200 | 1.53 | 0.04 | Passed |
| 1350 | 1.44 | 0.05 | Passed |
| 1500 | 1.52 | 0.03 | Passed |
| 1650 | 1.48 | 0.03 | Passed |
| 1800 | 1.43 | 0.04 | Passed |
| 1950 | 1.51 | 0.04 | Passed |
| 2100 | 1.63 | 0.04 | Passed |
| 2250 | 1.45 | 0.04 | Passed |
| 2400 | 1.34 | 0.02 | Passed |
| 2550 | 1.54 | 0.05 | Passed |
| 2700 | 1.56 | 0.05 | Passed |
| 2850 | 1.42 | 0.06 | Passed |
| 3000 | 1.49 | 0.07 | Passed |

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PFOA & PFOS Data Summary Filter 2

| Accumulated | Challenge | Filter 2 | Passing |
|-----------------|-----------|-----------|----------|
| Volume (Liters) | PFOA+PFOS | PFOA+PFOS | Criteria |
| Start | 1.62 | 0.01 | Passed |
| 150 | 1.55 | 0.01 | Passed |
| 300 | 1.48 | 0.01 | Passed |
| 450 | 1.46 | 0.01 | Passed |
| 600 | 1.45 | 0.01 | Passed |
| 750 | 1.45 | 0.02 | Passed |
| 900 | 1.59 | 0.01 | Passed |
| 1050 | 1.42 | 0.03 | Passed |
| 1200 | 1.53 | 0.04 | Passed |
| 1350 | 1.44 | 0.05 | Passed |
| 1500 | 1.52 | 0.04 | Passed |
| 1650 | 1.48 | 0.04 | Passed |
| 1800 | 1.43 | 0.04 | Passed |
| 1950 | 1.51 | 0.04 | Passed |
| 2100 | 1.63 | 0.05 | Passed |
| 2250 | 1.45 | 0.05 | Passed |
| 2400 | 1.34 | 0.05 | Passed |
| 2550 | 1.54 | 0.04 | Passed |
| 2700 | 1.56 | 0.05 | Passed |
| 2850 | 1.42 | 0.06 | Passed |
| 3000 | 1.49 | 0.07 | Passed |

Disclaimer: The test results are only related to the filter cartridges tested, in the condition received at the laboratory.

Jaime A. Young
Jaime A. Young
Lab Director