

Total Sediment in Residual Fuels

ASTM D4870 - ISO 10307 - IP 375



Item	Unit	Sediment tester
P/N Sediment tester		31T0050
Test stations		2
Operative pressure	[bar]	max 2.5
Steam required generation	[kg/h]	1.1
Length	[mm]	500
Width	[mm]	300
Height	[mm]	300
Weight	[kg]	12.2
CE	Pump and steam generator conform to CE regulation	

- ⊕ **Two test stations**
- ⊕ **Waste is collected outside unit**
- ⊕ **Stainless steel filter holders**
- ⊕ **Easy to use**
- ⊕ **Benchtop model**
- ⊕ **Big capacity Waste container**

General

Tamson supplies a two-position sediment tester with accessories for the total sediment test in residual fuels conform to ASTM D4870, IP 375, and ISO 10307. The test determines the insoluble material content of distillate and residual fuel oils. A weighed quantity (10 g) of the oil sample is filtered through the sediment tester at 100°C. After solvent washing and drying the total sediment on the filter medium is weighed. The test is to be carried out in duplicate.

The Sediment tester is a benchtop model which consists of two filtration cells, a vacuum circuit with gauge and an integrated cooling/heating circuit.

An advantage about our system is that the waste is collected in a waste container outside the unit and not inside the system. Alternatively, the waste can be collected in a lab's own waste system, in case they have a lot of samples.

Each cup has to be equipped with a sintered brass disc (P/N 31T0063) to support the microfiber filter media. Two pieces are standard included with the sediment tester.

Other necessary accessories like a vacuum pump, steam generator, filter media and waste container are available. Please see table 1 for more information.

The total sediment tester also needs the use of tap water, alternatively a more environmental friendly TLC15-5 chiller can be used. Please see table 3 on the next page for more details.

Safety

The sediment tester is a closed system where the waste is collected outside the unit. The pump and steam generator are conform to CE regulations.

Ageing bath

Tamson is also manufacturing an ageing bath for thermal and chemical ageing of the samples, conform to the procedure in the appendix of the test method. Either a 6 position or 15 position ageing bath is available. Please see the separate specification sheet "D4870-A".

Four or six position tester

A four or six position sediment tester is available on request.

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Accessories

Table 1: Necessary Accessories








P/N	Picture	Suggested Quantity	Description
31T0055		1	Vacuum pump with PTFE coated diaphragm, 230V/50Hz. Ultimate vacuum: 210 mbar; Max. flow rate: 34 L/min. Chemical resistant.
31T0056			Vacuum pump with PTFE coated diaphragm, 110V/60Hz. Ultimate vacuum: 210 mbar; Max. flow rate: 34 L/min. Chemical resistant.
31T0060		1	Steam generator for total sediment tester, 230V/50-60Hz
31T0061			Steam generator for total sediment tester, 115V/60 Hz
31T0062		1	Whatman filter media, GF/A, 47 mm pack of 100
31T0064		1	Waste container complete, 2 L (Not needed if sediment tester is connected to waste collection of the lab)

Table 2: Consumables for Sediment Tester

P/N	Picture	Suggested Quantity	Description
31T0063		2	Sintered bronze filter support with OR gasket
31T0059		5	O-ring for Sintered bronze filter support with OR gasket (P/N 31T0063)
31T0058		5	O-ring viton small for Sediment tester valve