# **CENTRIFUGE**

# ASTM D91 PRECIPITATION NUMBER OF LUBRICATING OILS

This test method covers the determination of the precipitation number of steam cylinder stocks and black oils, and can be used for other lubricating oils.

# ASTM D96 (obs) WATER AND SEDIMENT IN CRUDE OIL BY CENTRIFUGE METHOD (FIELD PROCEDURE)

#### ASTM D893 INSOLUBLES IN USED LUBRICATING OILS

This test method covers the determination of pentane and toluene insolubles in used lubricating oils.

## ASTM D1290 SEDIMENT IN WATER-EMULSION POLISHES BY CENTRIFUGE

## ASTM D1796 WATER AND SEDIMENT IN FUEL OILS

This test method describes the laboratory determination of water and sediment in fuel oils in the range from 0 to 30 % volume by means of the centrifuge procedure.

## ASTM D1966 (obs) FOOTS IN RAW LINSEED OIL (GRAVIMETRIC METHOD)

#### ASTM D2273 TRACE SEDIMENT IN LUBRICATING OILS

This test method covers the determination of trace amounts (less than 0.05 volume %) of sediment in lubricating oils.

# ASTM D2709 WATER AND SEDIMENT IN MIDDLE DISTILLATE FUELS

This test method covers the determination of the volume of free water and sediment in middle distillate fuels having viscosities at  $40^{\circ}$ C ( $104^{\circ}$ F) in the range of 1.0 to 4.1 mm<sup>2</sup>/s (1.0 to 4.1 cSt) and densities in the range of 770 to 900 kg/m<sup>3</sup>.

# ASTM D2711 DEMULSIBILITY CHARACTERISTICS OF LUBRICATING OILS

This test method covers the measurement of the ability of oil and water to separate from each other. It is intended for use in testing medium and high-viscosity lubricating oils.

## ASTM D4007 WATER AND SEDIMENT IN CRUDE OIL

This test method describes the laboratory determination of water and sediment in crude oils by means of the centrifuge procedure.

## IP 75 (obs); IP 359; DIN 51793 WATER AND SEDIMETN IN CRUDE OIL BY CENTRIFUGE

Four places model for anti-vibration table, is equipped with a star wheel that has 4 rings swinging up to 90°, max. 2000 rpm speed, 482.6 mm maximun rotation diameter. Speed is regulated electronically and shown on a digital display. Centrifuging time is set by a digital timer which operates an electric brake (that can be excluded) when the test is finished, electric heating (that can be excluded) controlled by digital thermoregulator PID and overtemperature alarm. Max. temperature 80°C. The heater and the brake can be cut out. Lid fitted with safety device which stops the motor when the lid opens

Technical specifications:

- Temperautre: from ambient to 80°C (176°F)
- Stability: ±1°C
- Power supply: 230V ±10% 50/60Hz
- Power: 2200W
- Dimensions: 60x76x62 (120 with cover open) cm
- Weight: 75 kg

# 1220 CENTRIFUGE



# **EXTRACTION RESIDUES SEDIMENT**

ACCESSORT	ES ON PEOUEST		from 0.01 to 0.05:0.01, from 0.05 to 0.5:0.05,
ACCESSORIES ON REQUEST For ASTM D91			50, 100
1230	WATER BATH	10-1226/W	WATER BATH RACK
10-1222	BUCKET FOR CONE-SHAPED TUBE, pack of 4 pcs	10 1220, 11	For 10-1226, 4 positions
10 1222	For 10-1225 and 10-1226, made of aluminum,		101 10 1220, 1 positions
	included Polyurethane support for tube	For ASTM D	2709
10-1225	CENTRIFUGE TUBE CONE-SHAPED, pack of 4 pcs	1230	WATER BATH
1-00	100 ml, 203 mm, div. from 0 to 0.5:0.05, from	10-1221	BUCKET FOR PEAR-SHAPED TUBE, pack of 4 pcs
	0.5 to 2:0.1, from 2 to 3:0.2, from 3 to 5:0.5,		For 10-1224, made of aluminum, included
	from 5 to 10:1, from 10 to 25:5, from 25 to		Polyurethane support for tube
	100:25	10-1224	PEAR-SHAPED TUBE, pack of 4 pcs
10-1225/W	WATER BATH RACK		100 ml, div. from 0 to 1.5:0.1, from 2 to
,	For 10-1225, 4 poitions		10:0.1, from 10 to 25:5, 50, 100
	· · · · · · · · · · · · · · · · · · ·	10-1222	BUCKET FOR CONE-SHAPED TUBE, pack of 4 pcs
For ASTM D96			For 10-1225 and 10-1226, made of aluminum,
1230	WATER BATH		included Polyurethane support for tube
10-1221	BUCKET FOR PEAR-SHAPED TUBE, pack of 4 pcs	10-1226	CENTRIFUGE TUBE CONE-SHAPED, pack of 4 pcs
	For 10-1224, made of aluminum, included		100 ml, 203 mm, div. from 0 to 0.01:0.005,
	Polyurethane support for tube		from 0.01 to 0.05:0.01, from 0.05 to 0.5:0.05,
10-1224	PEAR-SHAPED TUBE, pack of 4 pcs		50, 100
	100 ml, div. from 0 to 1.5:0.1, from 2 to	10-1224/W	WATER BATH RACK
	10:0.1, from 10 to 25:5, 50, 100		For 10-1224, 4 positions
10-1222	BUCKET FOR CONE-SHAPED TUBE, pack of 4 pcs	10-1226/W	WATER BATH RACK
	For 10-1225 and 10-1226, made of aluminum,		For 10-1226, 4 positions
	included Polyurethane supportfor tube		• •
10-1225	CENTRIFUGÉ TUBE CONE-SHAPED, pack of 4 pcs	For ASTM D	02711
	100 ml, 203 mm, div. from 0 to 0.5:0.05, from	10-1222	BUCKET FOR CONE-SHAPED TUBE, pack of 4 pcs
	0.5 to 2:0.1, from 2 to 3:0.2, from 3 to 5:0.5,		For 10-1225 and 10-1226, made of aluminum,
	from 5 to 10:1, from 10 to 25:5, from 25 to		included Polyurethane support for tube
	100:25	10-1225	CENTRIFUGE TUBE CONE-SHAPED, pack of 4 pcs
10-1223	BUCKET FOR CONE-SHAPED TUBE, pack of 4 pcs		100 ml, 203 mm, div. from 0 to 0.5:0.05, from
	For 10-1227, made of aluminum, included		0.5 to 2:0.1, from 2 to 3:0.2, from 3 to 5:0.5,
	Polyurethane support for tube		from 5 to 10:1, from 10 to 25:5, from 25 to
10-1227	CENTRIFUGE TUBE CONE-SHAPED, pack of 4 pcs		100:25
	100 ml, 152 mm, div. from 0 to 0.5:0.05, from	For ASTM D	9400 <i>7</i>
	0.5 to 2:0.1, from 2 to 3:0.2, from 3 to 5:0.5,	1230	WATER BATH
	from 5 to 10:1, from 10 to 25:5, 50, 100	10-1222	BUCKET FOR CONE-SHAPED TUBE, pack of 4 pcs
10-1224/W	WATER BATH RACK		For 10-1225 and 10-1226, made of aluminum,
	For 10-1224, 4 positions		included Polyurethane support for tube
10-1225/W	WATER BATH RACK	10-1225	CENTRIFUGE TUBE CONE-SHAPED, pack of 4 pcs
	For 10-1225, 4 positions		100 ml, 203 mm, div. from 0 to 0.5:0.05, from
10-1227/W	WATER BATH RACK		0.5 to 2:0.1, from 2 to 3:0.2, from 3 to 5:0.5,
	For 10-1227, 4 positions		from 5 to 10:1, from 10 to 25:5, from 25 to
			100:25
For ASTM D		10-1225/W	
2470/BC160	ELECTRONIC BALANCE		For 10-1225, 4 positions
	Range 160 g., readout 0.001, pan Ø110		
10-1222	BUCKET FOR CONE-SHAPED TUBE, pack of 4 pcs		
	For 10-1225 and 10-1226, made of aluminum,		
	included Polyurethane support for tube	CONSUMAE	BLES x 2 YEARS
10-1225	CENTRIFUGE TUBE CONE-SHAPED, pack of 4 pcs	15-1223	POLYURETHANE SUPPORT, pack of 4 pcs x2
	100 ml, 203 mm, div. from 0 to 0.5:0.05, from	10 1220	1 OLI OILLI III III COI I OILI, paoleoi I poo X
	0.5 to 2:0.1, from 2 to 3:0.2, from 3 to 5:0.5,		
	from 5 to 10:1, from 10 to 25:5, from 25 to		
	100:25	SPARE PAR	TS
l		11-1220	HEATER
For ASTM D	1796	16-0005	DIGITAL THERMOREGULATOR
1230	WATER BATH	16-0039	DIGITAL RPM
10-1222	BUCKET FOR CONE-SHAPED TUBE, pack of 4 pcs	16-0080	DIGITAL TIMER
l	For 10-1225 and 10-1226, made of aluminum,	15-0015	STATIC RELAY
l	included Polyurethane suppor for tubet	15-0004	BIPOLAR GREEN SWITCH
10-1225	CENTRIFUGE TUBE CONE-SHAPED, pack of 4 pcs	15-0005	BIPOLAR YELLOW SWITCH
	100 ml, 203 mm, div. from 0 to 0.5:0.05, from		
	0.5 to 2:0.1, from 2 to 3:0.2, from 3 to 5:0.5,		
	from 5 to 10:1, from 10 to 25:5, from 25 to		
	100:25		
10-1225/W	WATER BATH RACK		
	For 10-1225, 4 positions		
For ASTM D2273			
1230	WATER BATH		

1230

10-1222

10-1226

WATER BATH

BUCKET FOR CONE-SHAPED TUBE, pack of 4 pcs For 10-1225 and 10-1226, made of aluminum,

included Polyurethane support for tube CENTRIFUGE TUBE CONE-SHAPED, pack of 4 pcs

100 ml, 203 mm, div. from 0 to 0.01:0.005,