

# DEPARTMENT OF TRADE AND COMMERCE STANDARDS BRANCH

S-WA.588

OTTAWA December 9, 1605.

# APPROVAL LISTING

## MAYNE - BLEND-O-MATIC DISPENSER FOR MARINE FUELS

Under the provisions of the Weights and Measures Act, Chapter 292, R.S.C. 1952, and Regulations thereunder (P.C. 6894), the apparatus specified herein have been listed as approved devices and may be used in Canada in accordance with the conditions applicable.

Apparatus Listed:

Dispensers for blending gasoline and oil-gasoline

"premix", models as listed below:

Description

Blending type gasoline dispenser with suction

pumps; external appearance and internal component

arrangement the same as in Model 760.

760M-1

Blending type gasoline dispenser with remote pumps; external appearance the same as Model 760M and internal component arrangement the same as in

Model 760-1.

Manufactured by:

Wayne Pump Canada Ltd., 829 Richmond St. W., Toronto, Ontario.

Application:

Dispensing gasoline and various gasoline and oil blends for use in marine engines, in

retail trade.

Conditions:

As described in P.C. 6894.

Hating of Apparatus:

Maximum of 15 g.p.m. of gasoline Maximum of 10 g.p.m. of blended fuel.

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### Description:

These dispensers are identical to Models 760 and 760-1 approved on S-WA.515, except that they are intended for use with a "concentrate" which is a premix of oil and gasoline, in either a 18:1 ratio or a 12.5:1 ratio. The increments between steps on the premix selector is 12 1/2% (referring to the ratio of premix to the total quantity of fuel, and not to the ratio of oil to the total quantity of fuel). The actual ratio of oil for various blend positions is shown by the table below:

### USING 18:1 PREMIX

		12 1/2%	25%	37 1/2%	50%	62 1/2%	75%	87 1/2%	100%
BLEND POSITION	LO	1	2	3	4	5	6	7	8
ACTUAL BLEND	GAS	151:1	75:1	49.7:1	37:1	29.4:1	24.3:	1 20.7:1	18:1
FOR MOTORS USING:	GAS			50:1	40:1		24:1	20:1	
-			US	ING 12.5:1	PREMIX	•			
BLOND POSITION	LO	Ĵ	2	3	4	5	6	7	8
ACTUAL BLEND	GAS	107:1	53:1	35:1	26:1	20.6:1	17:1	14.4:1	12.5:1
FOR MOTORS USING:	GAS	100:1	50:1	40:1	24:1	20;1	lo:1		

As seen from the table, a different group of blend selector positions is used with the 18:1 premix than with the 12.5:1 premix, and the gas-oil blend dispensed corresponds only approximately to the posted blend. The reason for using a premix rather than straight oil is to increase the quantity of concentrate measured per gallon of gasoline measured; otherwise in dispensing 1 gallon of a 100:1 blend, only 0.01 gallon of oil would be measured, which is impractical; with the premix, 0.125 gallon of "oil" is measured.

Testing:

The standard tests for a Blend-O-Hatic dispenser shall apply; these tests will only determine that the "premix" is being delivered in the proper proportion. There is no method of checking whether the oil is being delivered in the proper proportion. Blended product is to be returned to the gasoline tank.

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