# ITASCA Marine 2-Cycle Outboard TC-W3® Engine Oil



## Warren Oil Company

Product Data Sheet

**ITASCA MARINE 2- CYCLE OUTBOARD TC-W3 ENGINE OIL** Is formulated from premium base stocks, along with ashless additives to provide outstanding protection against piston scuffing, bearing wear, ring sticking and rust in marine applications where a certified National Marine Manufacturer's Association (NMMA) TC-W3<sup>®</sup> lubricant is required.

**ITASCA MARINE 2- CYCLE OUTBOARD TC-W3 ENGINE OIL** is also recommended for use in applications where TC-W<sup>®</sup>, TC-WII<sup>®</sup>, TC-W3<sup>®</sup> and JASO FB and API TC two-cycle air-cooled category's are required.

It exceeds the warranty requirements of Evinrude<sup>®</sup>, Mercury<sup>®</sup>, Johnson<sup>®</sup>, Yamaha<sup>®</sup>, Mariner<sup>®</sup>, Suzuki<sup>®</sup> as well as all other makes and models of High Performance Outboard Engines and all two-cycle engines where a TC-W3<sup>®</sup> product is required. It may also be used in both oil-injected engines as well as those where the oil is mixed with the fuel.

ITASCA MARINE 2- CYCLE OUTBOARD TC-W3 ENGINE OIL is dyed BLUE for easy identification.

#### **Benefits**

- Resistant to piston scuffing and ring sticking
- Minimizes engine deposits and port plugging
- Mixes readily with gasoline
- Dyed for easy identification
- Provides rust and corrosion protection

## Warren Oil Company, Inc.

Dunn, NC 28334: Benton, AL 36758: San Antonio, TX 78210: Marion, IL 62959: Johnstown, PA 15909: West Memphis, AR 72303

## ITASCA Marine 2-Cycle Outboard TC-W3 Engine Oil



## Warren Oil Company

Product Data Sheet

#### **Fuel Mixing Table**

Ounces of Oil to Gallon of Gasoline (U.S. Measure)

Ratio Gas to Oil	1 Gal. oz.	2 Gal. oz.	3 Gal. oz.	4 Gal. oz.	5 Gal. oz.	6 Gal. oz.
16:1	8	16	24	32	40	48
20:1	6	13	19	26	32	38
25:1	5	10	15	20	26	31
50:1	3	5	8	10	13	16
100:1	1.5	2.6	4	5	6.4	8

## **Typical Characteristics**

ITASCA Outboard TC- W3 Motor Oils	Outboard TC-W3	
Gravity, API	32.0	
pounds/gal.	7.21	
Viscosity (typical)		
@40 Deg. C, cSt	45.0	
@100 Deg. C, cSt	7.94	
Viscosity Index	149	
Pour Point Deg. F	-44	
Ash, wt %	None	
Appearance	Blue	

#### Case Pallet Specifications:

702196 12/1 qt. 6 rows/14 count 84/pallet 702197 6/1 gal. 4 rows/9 count 36/pallet 702198 55 gal. 4 count 4/pallet

## Warren Oil Company, Inc.

Dunn, NC 28334 : Benton, AL 36758: San Antonio, TX 78210: Marion, IL 62959: Johnstown, PA 15909: West Memphis, AR 72303