

# DREW XP TOTAL ACID NUMBER TESTER



## DESCRIPTION

Included as part of the latest marine fuel specification, ISO 8217:2012, acidity is present in all fuel oils with expected values for residual fuel oil measured at less than 2.5 mg KOH/g and less than 0.5 mg KOH/g for distillate fuel oil. Acid number (AN) values higher than these listed would suggest the presence of acidic compounds in the form of acidic waste or chemical contamination in the fuel oil. For marine lube oil, acid number should be routinely monitored to detect for lube oil degradation, as AN will tend to fluctuate as lube oil ages.

Suitable for use by non-technical personnel, the DREW XP TOTAL ACID NUMBER TESTER uses a simple-to-use drop test that can be used for both distillate fuel and lube oil to determine the total amount of acidity present. Since the test kit is based on color, it is not applicable to residual fuel oil. The test kit contains a test jar, test reagents, syringes, and an easy-to-use manual.

## ACID NUMBER OF FUEL OIL

Although presently there is no recognized correlation between acid number and the corrosivity of a fuel, fuel oils exceeding the AN specification provide an indication that the acidic fuel can cause damage to marine diesel fuel injection equipment. The DREW XP TOTAL ACID NUMBER TESTER can be used to measure the level of acidity that may have been carried over to distillate fuel oil blends from residual fuel oil or from some other chemical contamination, such as waste or biofuel.

## ACID NUMBER OF LUBE OIL

As lube oil is used and begins to oxidize, a variety of oxidation products will contribute to AN and any organic acids produced will vary widely in corrosivity. More importantly, a rise in AN due to time and operating temperatures will be indicative of lube oil oxidation and the depletion of the lube oil's alkaline reserve. With the capacity to perform 50 tests, the DREW XP TOTAL ACID NUMBER TESTER can be easily be used for trending the level of oxidation of lube oils.

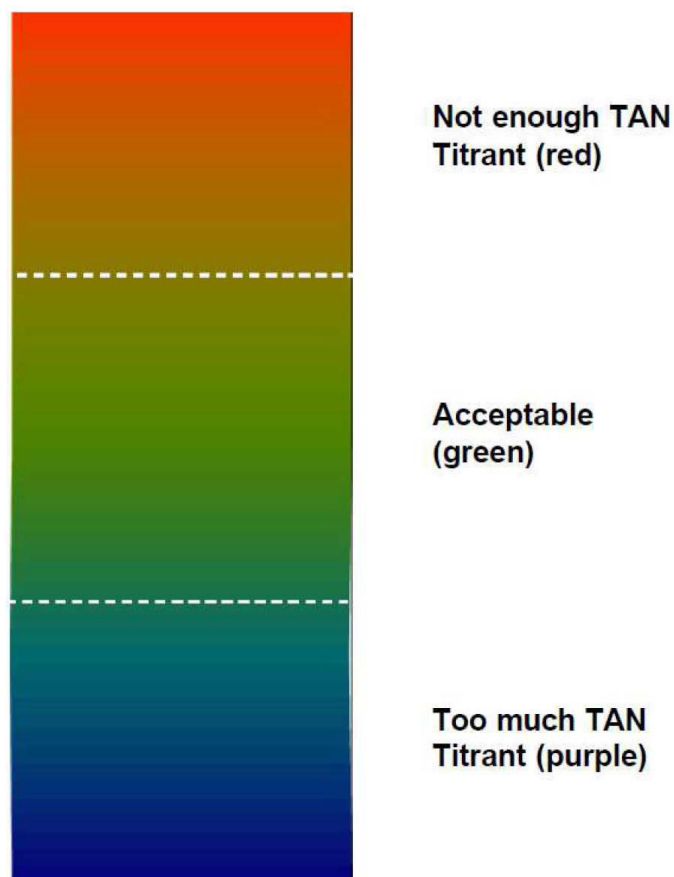
## ACID NUMBER OF HYDRAULIC OIL

The initial AN of hydraulic oil is indicative of the amount of additives and base oil used. The DREW XP TOTAL ACID NUMBER TESTER can be easily used for determining and trending the AN of hydraulic oil.

## ACID NUMBER OF BIODIESEL FUEL OIL

Due to varying feedstocks used in biodiesel fuel oil

production AN is one key parameter listed in biodiesel specifications signifying the amount of the oxidation or rancidity. Occurring relatively quickly at elevated storage temperatures, the oxidation process releases free fatty acids that are corrosive and can damage engine internals. Shown by a simple color change, the DREW XP TOTAL ACID NUMBER TESTER is recommended for early adopters of biodiesel to monitor rancidity of biodiesel fuel oil.



## CONTENTS AND ORDERING INFORMATION

This test is standard as part of:

- DREW XP BIODIESEL TEST KIT (PCN 1AB2753)

Reorders:

- DREW XP TOTAL ACID NUMBER TESTER (PCN 1AB2762)



Contact your Drew Marine representative for more information

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