

DREW XP LUBE OIL 5 TEST KIT



DESCRIPTION

The DREW XP LUBE OIL 5 TEST KIT contains all of the components including reagents needed for cost-effective onboard analysis of lube oil quality using the most important test parameters for identifying the presence of water and other problems likely to diminish service life. Refer to the Capabilities section of this sheet for details about the specific testing capabilities provided with this unit.

Lube oils used in modern high-performance engines consist of refined base oils with complex additive packages formulated for reliable performance in the harsh marine environment. Since lube oil breakdowns or lubrication systems failures can result in catastrophic machinery damage, monitoring lube oil condition in every lube oil system onboard is critical to the well-being of vessels and crew.

Onboard testing is a valuable tool for obtaining accurate, timely information about lube oil contaminants and health. Drew Marine onboard lube oil tests are designed for marine engineers to accurately measure contaminant levels and important oil characteristics. Utilizing laboratory-standard methodology, these tests allow shipboard crew to deliver highly accurate results within minutes.

The DREW XP LUBE OIL 5 TEST KIT is ideally suited for outfitting newbuildings with essential testing capabilities for monitoring lube oil quality for compliance with engine manufacturer and Classification Society requirements and guidelines. For all vessels in service, this kit functions as a fully self-contained unit to help streamline and standardize critical, ongoing monitoring of lube oil condition onboard.

BENEFITS OF ONBOARD TESTING

Onboard testing provides both flexibility and control for ship engineers charged with lube oil condition monitoring. In place of a fixed schedule for shore-based laboratory analysis, onboard test results showing contaminants or poor quality can be used to trigger submittals of samples as needed for confirmation, further evaluation or quantification.

Onboard testing can also be useful for supporting efforts to prolong the service life of expensive lube oils. Increasing the frequency of testing allows operators to monitor lube oil condition more closely when warranted, and take immediate remediation measures to prevent lube oil breakdown.

CAPABILITIES

The DREW XP LUBE OIL 5 TEST KIT is stored in a heavy-duty,



DREW XP LUBE OIL 5 TEST KIT
(PCN 1AB6168)

portable case. It contains test kits, other instruments, and operating procedure manuals for analyzing lube oils using the parameters shown below.

| CAPABILITIES | | | |
|-------------------------|----------|----------|-----------------------------------|
| Test Parameter | Fuel Oil | Lube Oil | Related Product Data Sheets |
| Water (up to 20.0%) | ■ | ■ | DREW XP H ₂ O Test Kit |
| Sea Water Contamination | ■ | ■ | DREW XP SW Contamination Tester |
| Total Base Number (BN) | | ■ | DREW XP TBN Test Kit |
| Insolubles | | ■ | DREW XP Insolubles Tester |
| Viscosity Evaluation | | ■ | DREW XP Viscosity Evaluator Kit |

Separate data sheets are available for specific test kits where indicated — please refer to them for technical information about those tests.

The results of Drew Marine lube oil tests can be used for immediate remediation as appropriate. Run separately in a single specially designed, USB rechargeable test cell, the tests for water content and total base number provide quantitative values. These results can be exported to PC as a comma separated value (.csv) file using the supplied USB cable. Results are shown qualitatively in the tests for sea water contamination, insolubles and viscosity. To positively identify these parameters as individual insoluble contaminants

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including wear metals, refer to the Drew Marine Laboratory Analysis technical data sheet entitled “Lube Analysis Program” that details shore-based lube analysis available from Drew Marine.

OPTIONAL TEST KIT ADD-ONS

The following test kits are also available for expanding the range of testing parameters to meet specific operator needs. For assistance in selecting which additional test kits to include in your cabinet, contact your nearest Drew Marine representative.

| Test Parameter | Diesel Oil | Lube Oil | Related Product Data Sheets |
|--|------------|----------|----------------------------------|
| Total Acid Number (AN) | ■ | ■ | DREW XP Total Acid Number Tester |
| Iron (hydraulic, cylinder drain oil, grease) | | ■ | DREW XP Wear Debris Analyzer |

CONTENTS AND ORDERING INFORMATION

The DREW XP LUBE OIL 5 TEST KIT (PCN 1AB6168) contains the following components.

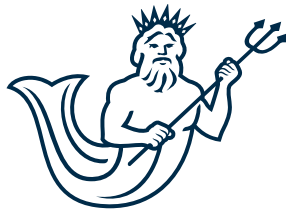
For reordering, refer to the DREW XP LUBE OIL FIVETEST KIT Operating Manual for Product Code Numbers (PCNs) for all test kits and components.

| DESCRIPTION | QTY. |
|--|------|
| Insolubles Tester | 1 |
| Viscosity Evaluator | 1 |
| SW Contamination Tester | 1 |
| DREW XP-LOF Test Cell, USB (H2O & TBN) | 1 |
| DREW XP-SWC Test Pads | 1 |
| Reagent H2O-Paste, 50 CT. | 1 |
| Reagent SW, 250 ML | 1 |
| Reagent TBN Pack | 1 |
| Test Beaker, 100 ML | 1 |
| Test Cell Agitator, 3 CT. | 1 |
| Test Paper, Chromatography | 1 |
| Test Pipette, 1ML | 3 |
| Test Solvent, 500 ML | 2 |
| Test Stirring Rod, Plastic | 1 |
| Test Syringe, 10ML | 1 |
| Test Syringe, 1ML | 1 |
| Test Syringe, 5ML | 2 |
| Test Tube, PP | 1 |
| Test Tweezer | 1 |
| USB 2.0 A Male - Micro B Cable | 1 |



Contact your Drew Marine representative for more information

Drew Marine maintains Safety Data Sheets on all of its products. These documents contain health and safety information for the development of appropriate product handling procedures to protect your employees. Safety Data Sheets should be read and understood by all of your supervisory personnel and employees before using Drew Marine products.



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