



# Lubricants Report



## Product Data Sheet from Shell Lubricants

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### XTC-50\* TWO CYCLE OIL

FOR AIR COOLED TWO CYCLE ENGINES

#### PRODUCT LINE

**XTC-50** is a premium quality two-cycle oil formulated for a wide variety of air-cooled two stroke engines. In addition **XTC-50** exceeds SAE FM 4 requirements for fluid miscibility. This means **XTC-50** remains mixed with the fuel and flows at temperatures as low as  $-40^{\circ}\text{C}$ .

#### APPLICATIONS

**XTC-50** has been developed to provide excellent lubrication in modern two cycle air-cooled engines with up to 50:1 fuel to oil ratios. **XTC-50** is our primary recommendation for air-cooled two cycle engines.

**XTC-50** can be used in lube injection systems or it can be pre-mixed with the fuel to provide outstanding lubrication in today's air-cooled two cycle engines.

Liquid cooled two cycle engines should use **Nautilus\* Premium Outboard Motor Oil** or **Shell Advance\* Premium Snowmobile Oil**. For high performance applications **Shell Advance Snow Ultra\*** and **Nautilus\* PWC Synthetic Oil** are the preferred lubricants.

#### PERFORMANCE BENEFITS

- **Excellent Piston Cleanliness** – **XTC-50** contains an effective detergent that keeps pistons clean and free of varnish and deposits. Deposit formation can lead to ring sticking resulting in poor engine operation and power loss. **XTC-50** surpasses the standard for piston cleanliness in the API TC classification.
- **Reduced Spark Plug Fouling** – **XTC-50** is formulated with dispersant additives to effectively minimize combustion chamber deposits which can foul spark plugs and reduce combustion efficiency.
- **High Temperature Protection** – Today's air-cooled two cycle engines work harder and longer than ever before. **XTC-50** is an API TC approved low ash oil specifically designed to work at the high temperatures encountered by these engines.

#### APPROVALS

**XTC-50** exceeds API TC service classification for the following requirements:

- Piston Scuffing
- Preignition Deposits
- Ring Sticking

## TYPICAL PROPERTIES

| PRODUCT CODE                             | XTC-50         | ASTM METHOD    |
|--|----------------|----------------|
|  | <b>427-520</b> |                |
| Colour                                   | Blue           | Visual         |
| Density at 15° C - Kg/m <sup>3</sup>     | 859            | D 1298         |
| Pour Point, ° C                          | -45            | D 97           |
| Flash Point, COC, °C.                    | 112            | D 92           |
| Flash Point, PMCC, °C., min.             | 65             | D 93           |
| Viscosity<br>cSt @ 40 °C<br>cSt @ 100 °C | 21.8<br>4.6    | D 445<br>D 445 |
| Brookfield Viscosity cP @ -40 °C         | 14,092         | D 2983         |
| Sulphated Ash, % m                       | 0.06           | D 874          |
| TBN-E mg KOH/g                           | 1.36           | D 2896         |
| API Service Classification               | TC             |                |
| SAE Miscibility/ Fluidity Grade          | FM 4           |                |

[Visit](#) your nearest Shell Associate or Reseller for more details.

Need more product information? Please the [Shell Customer Service Centre](#) at 1-800-661-1600 or e-mail us at [questions@shell.com](mailto:questions@shell.com)

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