

## Product Data Sheet

### Azura EL-X

#### Description and Applications

**Saheli Azura EL-X oils** is premium quality multifunctional trunk piston engine oils designed for use in the latest highly rated medium speed diesel engines operating on residual fuels in marine, power generation and industrial applications.

The advanced sludge control additive technology used in **Saheli Azura EL-X** meets the ever increasing demand of medium speed diesel engines and provides exceptional engine cleanliness and wear protection.

**Saheli Azura EL-X** is available in **SAE 30** and **40** viscosity grades with a **TBN** (Total Base Number) ranging from **20** to **40**.

#### Features and Benefits

- High degree of water tolerance and has better water separation and base retention properties.
- Exceptional detergency that reduces build-up of soot and black sludge, improves tolerance for heavy fuel contaminants and keeps the engine clean.
- Acidic by-products are effectively neutralized and the engine is protected from corrosive wear by the unique formulation providing the reserve alkalinity.
- Superior demulsibility characteristics ensure water separation leading to trouble free operation.
- Robust anti-wear technology provides excellent piston and linear wear control and good gear performance leading to reduction in maintenance costs.
- Excellent thermo-oxidative stability retards oil degradation facilitating extended oil life.

#### Applications

- **Saheli Azura EL-X 3040** and **4040** having a **TBN of 40** are suitable for the modern low oil consuming engines operating on residual fuels having sulphur content in excess of 3.5%.
- **Saheli Azura EL-X 3030** and **4030** having a **TBN of 30** are suitable for the modern engines operating on residual fuels having sulphur content in excess of 2.5% and up to 3.5 %.
- **Saheli Azura EL-X 3020** and **4020** having a **TBN of 20** are suitable for the modern engines operating on residual fuels having sulphur content up to 2.5 %.

#### Specifications

- **API CF**

| Test Parameters                       | Test Method | Typical Results |           |           |           |           |           |
|---------------------------------------|-------------|-----------------|-----------|-----------|-----------|-----------|-----------|
|                                       |             | 3020            | 4020      | 3030      | 4030      | 3040      | 4040      |
| <b>Saheli Azura EL-X</b>              |             | <b>30</b>       | <b>40</b> | <b>30</b> | <b>40</b> | <b>30</b> | <b>40</b> |
| <b>SAE Viscosity Grade</b>            | SAE (J300)  | <b>30</b>       | <b>40</b> | <b>30</b> | <b>40</b> | <b>30</b> | <b>40</b> |
| Density @ 15°C gm/cm <sup>3</sup>     | ASTM D4052  | 0.898           | 0.900     | 0.905     | 0.907     | 0.913     | 0.915     |
| Viscosity Index                       | ASTM D2270  | 98              | 95        | 97        | 95        | 97        | 96        |
| Viscosity @ 40°C, mm <sup>2</sup> /s  | ASTM D7042  | 99.3            | 145       | 99.1      | 143       | 101       | 144       |
| Viscosity @ 100°C, mm <sup>2</sup> /s | ASTM D7042  | 11.2            | 14.3      | 11.1      | 14.1      | 11.2      | 14.3      |
| Pour Point °C                         | ASTM D 97   | -18             | -18       | -18       | -18       | -18       | -18       |
| Flash Point (COC) °C                  | ASTM D 92   | 232             | 242       | 236       | 232       | 248       | 236       |
| TBN, mgKOH/g                          | ASTM D 2896 | 20              | 20        | 30        | 30        | 40        | 40        |
| Sulfated Ash, wt%                     | ASTM D 874  | 2.5             | 2.5       | 3.69      | 3.69      | 4.87      | 4.87      |

The information contained in this data sheet are indicative and correspond to the date of publication of this document. The above data are based on laboratory tests. It is the reader's interest to ensure whether the most recent version of the data sheet. A safety data sheet is available on request by our sales consultant. For more information, please contact the sales department.