TECHNICAL DATA SHEET
V102025

# XTEC 0W20 ST

## TECHNICAL CONTEXT

At Stellantis, certain sensitive engines, particularly EB2 and DV5rx, have shown critical reliability and performance challenges, particularly regarding wear of critical parts, deposits in oil circuits, and the operation of exhaust gas after-treatment systems. These issues are exacerbated by demanding operating conditions and extended oil change intervals. To address these challenges, the use of a high-performance engine oil that meets modern specifications and effectively protects these engines is essential to ensure their durability and performance.

## DESCRIPTION

**BARDAHL XTEC 0W20 ST** is a new-generation 100% synthetic engine oil, specifically formulated to meet the demands of modern engines compliant with Euro 6 standards. It is characterized by the following features:

- **Superior protection against wear**, deposits, and corrosion.
- **Low SAPS technology**, optimized for after-treatment systems (DPF, SCR, etc.).
- **Fuel consumption reduction** of up to **3.0%**, contributing to lower $CO_2$ emissions.
- **Suitable for extended drain intervals**, respecting manufacturer recommendations.

## APPLICATION

For optimal use, BARDAHL XTEC 0W20 ST engine oil is recommended for vehicles equipped with **EB2** and **DV5rx** engines under the following conditions:

- **OPR Numbers (Production Order):**
  - **EB2** engines: Starting from OPR **16XXX** (vehicles produced after 2019, including modified versions with reinforced timing chains).
  - **DV5rx** engines: Vehicles produced after OPR **15XXX** (introduction of lubrication circuit optimizations).
- **Vehicle release dates:**
  - **EB2** engines: From **2019** for Euro 6.3 and later versions.
  - **DV5rx** engines: From **2018** for Euro 6d vehicles.
- **Note: As of June 17, 2024, it is MANDATORY to use a 5W-30 FPW 9.55535/03 oil, such as BARDAHL XTEC 5W30 ST, for the following engines:**
  - Petrol engines: EB2 Turbo GEN 1 Euro 6.1 (1.2 PureTech) produced between 2014 and 2018
  - Diesel engines: DV5R (1.5 BlueHDi) and DW12RU (2.2 Blue HDI)


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## SPECIFICATIONS

The product meets the following requirements:

| | |
|---|---|
| API | SP |
| ACEA | C5/C6 |
| PSA | B71 2010 |
| FIAT | 9.55535-DM1/GSX |

## PROPERTIES

- ✓ Enhanced engine durability thanks to excellent thermal stability and resistance to oxidation.
- ✓ Outstanding performance under extreme conditions, especially in cold weather (easier starts down to -35°C).
- ✓ Compatibility with after-treatment systems, ensuring reduced deposits in the DPF and extended lifespan.
- ✓ Reduces fuel consumption.
- ✓ Excellent shear resistance.
- ✓ Facilitated cold starts at very low temperatures (-40°C).
- ✓ Detergent and dispersant effects.
- ✓ Anti-wear, anti-corrosion, anti-foam, anti-oxidation properties.
- ✓ High and stable viscosity index.

## TECHNICAL DATA

| Properties | Method | Unit | Typical value |
|---|---|---|---|
| Viscosity grade | - | - | 0W-20 |
| Density, 15°C | ASTM D 4052 | g/ml | 0.8456 |
| Density, 20°C | ASTM D 4052 | g/ml | 0.853 |
| Kinematic viscosity, 40°C | ASTM D 445 | $mm^2/s$ | 40.5 |
| Kinematic viscosity, 100°C | ASTM D 445 | $mm^2/s$ | 8.2 |
| Viscosity index | ASTM D 2270 | - | 171 |
| Apparent viscosity, -35°C | ASTM D 5293 | mPa.s | 5500 |
| Drop point | ASTM D 97 | °C | -48 |
| Flash point (COC) | ASTM D 92 | °C | - |


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| | | | |
|---|---|---|---|
| HT/HS viscosity | CEC-L-36-A-90 | mPa.s | ≥ 2.6 |

The information contained in this sheet is provided for reference only. Because of continual product development, changes may occur without prior notice. No liability for damages caused by the incompleteness or incorrectness will be accepted.

## RECOMMENDATIONS

Handling : any safety information related to the handling and use of this product are gathered in the Safety Data Sheet.

Always check the manufacturer car manual before use.

Storage : it is recommended to use the product within 60 months. It should be stored in its original packaging, closed, and protected from light, humidity and excessive temperature.

## REFERENCES & AVAILABITIES

| | |
|---|---|
| 34911 | 12 x 1L |
| 34913 | 3 x 5L |


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