Our suite of Diesel Products
Keeping your business moving forward.

People say you need the right tool for the right job. And we couldn’t agree more. It’s why we offer more than one diesel product to help you meet your operational and environmental goals.

Conventional Diesel

Our ultra low-sulphur diesel (ULSD) is here to keep your business running all year long. In fact, we offer seasonal blends so your engine performs at its best – no matter the temperature. Produced from a rigorous refining process with a fossil fuel base, our ultra low-sulphur diesel is a high-quality fuel. It helps maintain the engine’s lifespan and prevent deposit buildup.

1. Feedstock: Crude Oils
   Made with fossil fuel.

2. Produced through a Refining Process
   All feedstocks then go through a traditional refining process.

3. Result: Diesel
   A high-quality diesel fuel you’ve come to know and depend upon.

Biodiesel Blends / Fatty Acid Methyl Ester (FAME)

Our biodiesel is made from renewable feedstocks that go through a chemical process called transesterification. From there, the biodiesel – also known as FAME – is mixed with conventional diesel at varying concentrations. Our most common blend contains 5% biodiesel (called B5), but we do offer up to a 20% biodiesel blend (B20) in some areas.

1. Feedstock: Renewable Materials
   Made with renewable feedstocks, like virgin seed oils, tallow, used cooking oil, etc.

2. Produced through a Chemical Process
   FAME is produced through a chemical process called transesterification, which yields different characteristics and properties from conventional diesel.

3. Result: Biodiesel
   FAME should be blended with conventional petroleum diesel before it’s considered a finished product for use in your equipment. Biodiesel blends may reduce greenhouse gas (GHG) emissions up to 21% compared to conventional diesel.

Petro-Canada EcoDiesel™

Petro-Canada EcoDiesel is made with hydrotreated renewable diesel (HRD). It is a premium, drop-in fuel that reduces GHG emissions up to 84%³, as compared to conventional diesel. It allows you to support your environmental goals, while maintaining performance.

1. Feedstock: Renewable Materials
   Made with renewable feedstocks, like virgin seed oils, tallow, used cooking oil, etc.

2. Produced through a Refining Process
   Feedstocks then go through traditional refining processes, including hydrotreating, isomerization and distillation, which convert them into a high-quality fuel with characteristics similar to diesel fuel.

3. Result: HRD
   The end result is a premium-quality fuel that reduces GHG emissions by up to 84%³ compared to conventional diesel.
A portfolio of diesel products to meet your business needs.

Compare diesel characteristics below.

| Diesel Type | Carbon Intensity (g CO₂e/MJ) | Cetane Number | Flash Point (°C) | Aromatics (Vol %) | Low-Temperature Operability | Stability | Equipment Preparation | Diesel Specifications | Environmental Impact Score
|-------------|-------------------------------|----------------|------------------|-------------------|-----------------------------|-----------|-----------------------|----------------------|----------------------|
| Ultra Low-Sulphur Diesel | 94.76 g CO₂e/MJ | min. 40 | min 40°C | 14-30, can be as high as 43 | Suitable for year-round use | Stable | No equipment preparation required | Meets Canadian General Standards Board (CAN/CGSB) 3.517 | 8
| Biodiesel Blend (B5) | 89 - 92 g CO₂e/MJ | min. 40 | min 40°C | 13-28, can be as high as 41 | All OEMs approve B5 blends for year-round use | Low stability; best not to keep product sitting for longer than 3 months | Equipment preparation required | Meets diesel fuel containing biodiesel specifications: Canadian General Standards Board (CAN/CGSB) 3.520 (B1-B5) | 7
| Biodiesel Blend (B20) | 72 - 83 g CO₂e/MJ | ~>41 | min 40°C | 11-24, can be as high as 34 | Seasonal limitations; Suitable for use down to -15°C | Low stability; best not to keep product sitting for longer than 3 months | Equipment preparation required | Meets diesel fuel containing biodiesel specifications: Canadian General Standards Board (CAN/CGSB) 3.522 (B6-B20) | 6
| Petro-Canada EcoDiesel | 9 – 30 g CO₂e/MJ | ~>70 | 56-84°C | Suitable for use down to -20°C winter and down to -6°C summer | Stable | No equipment preparation required | Meets diesel specifications: American Society for Testing and Materials (ASTM) D975 and Canadian General Standards Board (CAN/CGSB) 3.517 | 5

Contact your account representative to discuss which diesel product is best for your business and region.

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1 This was calculated based on historical Suncor FAME supply data and BC LCFS default value for carbon intensity.
2 Lifecycle greenhouse gas emission reductions are compared to fossil diesel with the BC LCFS default value for carbon intensity.
3 The carbon intensity for the Petro-Canada EcoDiesel was based on current supply and calculated with GHGenius.
4 Carbon intensity is the measure of the equivalent amount of CO₂ (GHG) emitted in the fuel’s total lifecycle. The lower the carbon intensity number, the lower the GHG emissions. The lower the carbon intensity, the greater the number of green leaves.
5 This CI value refers to unblended ULSD only. Source: British Columbia Renewable and Low Carbon Fuel Requirements Regulation (BC LCFS).
6 Based on historical Suncor HRD supply data.
7 We procure different temperature specifications to accommodate different seasons. Please consult with your account manager to determine when the fuel is suitable for use within your geography. The above information is provided without warranty or representation of any kind. All product provided is warranted only to meet specifications in sales documentation provided by Petro-Canada, which includes meeting national fuel specifications and regulatory specifications. All other warranties are expressly disclaimed, including, without limitation, fitness for any particular purpose.
8 Seasonal change-out is required. Please consult your Petro-Canada sales representative to discuss the use and maintenance practices for your region.
9 Environmental impact score is measured by carbon intensity. Carbon intensity is the measure of the equivalent amount of CO₂ (GHG) emitted in the fuel’s total lifecycle. The lower the carbon intensity number, the lower the GHG emissions.
Get in touch with us today to find out how we can help fuel your success. Please reach out to your Petro-Canada rep or email us at ssrings@suncor.com.

You can also visit petro-canada.ca/business.