Triax 5W-40

Triax Fleet Supreme ESP 5W-40 API CK-4 Full Synthetic Heavy Duty Diesel Engine Oil Instruction Manual

Model: 5W-40

1. Product Overview

Triax Fleet Supreme ESP 5W-40 API CK-4 Full Synthetic Heavy Duty Diesel Engine Oil is engineered for superior performance and protection in modern diesel engines. This advanced formulation incorporates Moly and Nano-Boron friction modifiers to reduce wear, extend drain intervals, and maintain engine cleanliness. It is suitable for a wide range of heavy-duty diesel applications, ensuring optimal engine functionality and longevity.



Figure 1: Triax Fleet Supreme ESP 5W-40 1 Gallon Bottle. This image displays the product packaging, highlighting the brand, viscosity grade, and key specifications.

2. Key Features

- **Enhanced Engine Operation:** Contributes to quieter engine performance, lower operating temperatures, and improved fuel efficiency (4-6% MPG improvement).
- **Extreme Wear Protection:** Formulated with Nano-Boron and Moly friction modifiers, providing up to 68% less wear compared to OEM and industry standards.
- **Extended Drain Intervals:** Capable of drain intervals exceeding 100,000 miles for highway semi-trucks and 30,000 miles for super duty pickups, subject to regular oil analysis.
- **Viscosity Stability:** High shear stability and film strength ensure consistent viscosity, protecting the engine in severe service conditions like towing and hauling.
- **Stiction Prevention:** Specifically designed to prevent HEUI injector stiction, injector lockup, and engine misfires without the need for additional aftermarket additives.
- **DPF / SCR Protection:** Maintains diesel particulate filters (DPF) and selective catalytic reduction (SCR) systems clean and clog-free, ensuring optimal emission system functionality.
- **Cold Start Performance:** Offers exceptional cold start properties down to -45°F.



Figure 2: Illustration of Triax Fleet Supreme's wear reduction benefits. This graphic highlights the significant reduction in overall wear, main bearing, and piston wear achieved with the product.



Figure 3: Visual representation of Nano-Boron and Moly Engine Armor. This image illustrates how the advanced friction modifiers create a protective shield within the engine.

3. Applications

Triax Fleet Supreme ESP 5W-40 is fully compatible with all heavy-duty CK-4 or previous diesel engines. It is ideal for:

- Heavy Duty Diesel Engines (e.g., Volvo, Cummins, Detroit Diesel, MAN, Scania)
- Diesel Pick-Up Trucks (e.g., Ford Powerstroke, Chevy Silverado, Dodge RAM, GMC Sierra)
- Mixed fleets (suitable for both gasoline and diesel heavy-duty engines)



Figure 4: Triax Fleet Supreme providing proven protection for heavy-duty diesel engines. The image shows a pickup truck and a semi-truck, illustrating the product's broad application.

4. Specifications

Specification	Value
Viscosity	5W-40
Brand	Triax
Vehicle Service Type	Heavy Duty Diesel Engines
Flash Point	400 Degrees Celsius
UPC	852771008798
Automotive Fit Type	Universal Fit

Specification	Value
Manufacturer	TRIAX Lubricants North America
Size	1 Gallon
SAE J300 Viscosity Grade	5W-40
Item Weight	7.63 pounds
Product Dimensions	7.5 x 3.5 x 12 inches
Item Model Number	TRX1092-55
Special Features	Extreme shear stability for outstanding load carrying capacity in towing, hauling applications, Friction modified with Moly for superior wear protection and instant cold starts, Use with both gasoline & diesel heavy duty engines, Viscosity stabilizer pre-boosted to stay in grade.



Figure 5: Product label of Triax Fleet Supreme ESP 5W-40, detailing specifications and applications. This image provides a clear view of the information printed on the product container.

5. Setup and Application

For optimal results, follow your vehicle manufacturer's recommendations for oil change procedures. Ensure the engine is at operating temperature before draining old oil. Replace the oil filter with a new, compatible filter.

1. **Prepare Vehicle:** Park the vehicle on a level surface and engage the parking brake. Allow the engine to cool slightly but remain warm.

2. **Drain Old Oil:** Place a suitable drain pan under the oil pan. Remove the drain plug and allow all old oil to drain completely.
3. **Replace Oil Filter:** Remove the old oil filter. Apply a thin film of new engine oil to the gasket of the new filter before installing it. Tighten the new filter according to manufacturer specifications.
4. **Reinstall Drain Plug:** Clean the drain plug and replace its washer if necessary. Reinstall the drain plug and tighten it to the manufacturer's recommended torque.
5. **Add New Oil:** Locate the oil fill cap on the engine. Carefully pour the recommended amount of Triax Fleet Supreme ESP 5W-40 into the engine. Refer to your vehicle's owner's manual for the exact oil capacity.
6. **Check Oil Level:** After adding the oil, replace the fill cap. Start the engine and let it run for a few minutes to circulate the new oil. Turn off the engine, wait a few minutes for the oil to settle, and then check the oil level using the dipstick. Add more oil if necessary to reach the 'Full' mark.

6. Operating and Performance Benefits

Using Triax Fleet Supreme ESP 5W-40 provides several operational advantages:

- **Reduced Friction:** The Moly and Nano-Boron additives create a protective layer, significantly reducing friction between engine components. This leads to smoother operation and less heat generation.
- **Improved Fuel Economy:** Lower friction contributes to a more efficient engine, potentially resulting in a 4-6% improvement in fuel mileage.
- **Enhanced Cold Start:** The 5W-40 viscosity ensures rapid oil flow during cold starts, protecting critical engine parts from wear even in temperatures as low as -45°F.
- **Turbocharger Protection:** The advanced formulation helps maintain optimal turbocharger performance and longevity by reducing wear and preventing deposits.



Figure 6: Triax Fleet Supreme engineered for extreme conditions and heavy loads, providing all-weather protection. The image depicts a semi-truck driving in snowy conditions, emphasizing the oil's performance in harsh environments.

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Video 1: Official product video for TRIAX Fleet Supreme. This video provides a visual overview of the product's benefits and applications.

7. Maintenance and Drain Intervals

Triax Fleet Supreme ESP 5W-40 is designed for extended service life, but actual drain intervals should be determined by regular oil analysis and adherence to vehicle manufacturer guidelines. The product is capable of:

- Up to 100,000 miles in highway semi-trucks.
- Up to 30,000 miles in super duty pickups.

These extended intervals are achievable in mechanically sound engines with consistent oil analysis and without the use of aftermarket additives. Always monitor your engine's condition and oil quality to ensure optimal protection.



Figure 7: Graphic illustrating the extended drain intervals for Triax Fleet Supreme in Class 8 trucks and pickups. This image highlights the product's long-life capabilities.

8. Troubleshooting and Common Benefits

This engine oil is formulated to address common issues and enhance engine reliability:

- **No Stiction:** The unique formulation actively prevents HEUI injector stiction, a common problem in some diesel engines, eliminating the need for separate stiction additives.
- **DPF/SCR Clogging:** By keeping diesel particulate filters and SCR systems clean, the oil helps prevent premature clogging and maintains emission system efficiency, avoiding costly repairs.
- **Engine Noise:** Users often report a quieter engine operation due to the advanced friction modification properties.



Figure 8: Triax Fleet Supreme promotes no stiction and low friction, leading to quieter and cooler engine operation. This image visually emphasizes the benefits of reduced friction and stiction prevention.

9. Safety Information

Always handle engine oil with care. Read and understand the Safety Data Sheet (SDS) before use. Keep out of reach of children and pets. Avoid prolonged or repeated skin contact. In case of contact, wash thoroughly with soap and water. Dispose of used oil responsibly at an authorized collection center.

10. Warranty and Support

For specific warranty information and technical support regarding Triax Fleet Supreme ESP 5W-40, please refer to the official Triax Lubricants website or contact their customer service directly. Ensure proper product application and maintenance practices are followed to maintain any applicable warranties.

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