

# Premium DEO 5W-40 API CK-4

## Full Synthetic Heavy Duty Diesel Engine Oil

### Description

Nemco Premium DEO 5W-40 API CK-4 is a full synthetic diesel engine oil that is API Service CK-4. This premium heavy duty diesel engine oil is engineered for optimal fuel economy, wide temperature range performance, and superior protection of all Tier IV and newer model year low emission engines and exhaust after treatment systems. This engine oil is backwards compatible and may be used in equipment that called for earlier API oil categories CJ-4, CI-4 with CI-4 Plus.

Premium DEO 5W-40 API CK-4 full synthetic diesel engine oil provides industry-leading anti-oxidant performance and aeration protection, and gives this synthetic 5W-40 engine oil the highest level of field tested durability for longer engine life in fleet, construction, and agriculture equipment under severe service and extreme temperature conditions.

### Advantages

- Proven improved fuel economy (up to 1.2%) compared to 15W-40 engine oil
- Excellent TBN retention to neutralize deposits, soot, and acids during the course of a drain interval
- Advanced oxidation protection and enhanced shear stability
- Protects DPF (diesel particle filter) against ash build up
- Reduces wear during cold temperature start up; exceeds 5W-40 pumpability requirements
- Exceptional soot and deposit control reducing engine wear and extending engine life

### Applications

Four-stroke naturally aspirated and turbocharged diesel engines and when the manufacturer recommends the use of 5W-40 diesel engine oils. For all Tier IV and newer low-emission engines with exhaust after treatment devices and for all pre-Tier IV engines specifying older API CI-4 Plus or CI-4. When using ultra-low or low-sulfur diesel fuel.

### Meets or Exceeds

- API Service CK-4, CJ-4, CI-4 Plus, CI-4

### Recommended/Suitable for

- ACEA E-92012, E7
- Caterpillar ECF-3, ECF-2
- Chrysler (FAC) MS-10902, (EcoDiesel engines)
- Cummins CES 20086, 20081
- Daimler Mercedes Benz 228.31
- Detroit Diesel DFS 93K222, 93K218
- Mack EOS-4.5, EO-O Premium Plus, EO-N
- MAN M-3575
- MTU Category 2.1
- Renault RLD-4, RLD-3
- Volvo VDS-4.5, VDS-4, VDS-3

### Use and Storage

To get the best performance from your equipment ensure products meet or exceed manufacturing requirements. Lubricants typically have a shelf life of 5 years under ideal storage conditions. Keep drums and totes in good condition and away from moisture. Keep bungs securely in place; as bungs breath, moisture can seep in over time. Where possible, avoid storage in areas where the temperature fluctuates between extreme highs and lows.

### Health, Safety, & Environment

GHS compliant Safety Data Sheets are available at [nemco.ca](http://nemco.ca) under 'Safety Data Sheets'. For SDS in French, please contact [info@nemco.ca](mailto:info@nemco.ca). This material is WHMIS Classified. The SDS contains valuable information critical to the safe handling and proper use of the product. Always take used oil to an authorized collection point. Avoid discharge into drains, soil, or water. As with any lubricant, keep out of reach of children and animals.

## Typical physical characteristics - Premium DEO 5W-40 API CK-4

| Properties                                    | Method     | Performance                             |
|---|------------|---|
| API Service Categories                        | -          | API Service CK-4, CJ-4, CI-4, CI-4 Plus |
| Oil Type                                      | -          | Full Synthetic                          |
| Kinematic Viscosity @40°C mm <sup>2</sup> /s  | ASTM D445  | 94.3                                    |
| Kinematic Viscosity @100°C mm <sup>2</sup> /s | ASTM D445  | 15.2                                    |
| Viscosity Index                               | ASTM D2270 | 170                                     |
| CCS Viscosity @-30°C                          | ASTM D5293 | 5,930                                   |
| Sulphated Ash, % wt.                          | ASTM D874  | 1.1                                     |
| Total Base Number mg KOH/g                    | ASTM D2896 | 11                                      |
| Flash Point (CC), °C (°F)                     | ASTM D92   | n/a                                     |
| Pour Point, °C (°F)                           | ASTM D97   | -45 (-49)                               |
| MRV-TP1, cP@-35°C                             | ASTM D4684 | 32,800                                  |

*These characteristics are typical of current production, variations in these characteristics may occur.*

## Availability and product codes

| Pack size       | 12x1L case   | 4x4L case | 20L pail  | 205L drum | 1,000L tote/Bulk |
|-----------------|--|-----------|-----------|-----------|------------------|
| Prem 5W-40 CK-4 | DMOSZ0003  | DMOSZ0008 | DMOSZ0018 | DMOSZ0033 | DMOSZ0049        |
| Availability    | To order, contact us toll free at 855.755.6737 or orderdesk@nemco.ca |           |           |           |                  |

## Quality

Nemco Resources Ltd works with respected industry suppliers. The manufacturing facility in Winnipeg, Manitoba is proud to be certified to ISO9001. For questions regarding quality, please contact your Technical Sales Representative.