

## PRODUCT BULLETIN

### Alternate Fuel Natural Gas Bus Engine Oil

#### API CH-4

PRODUCT #642

#### CAM2 ALTERNATE FUEL NATURAL GAS BUS ENGINE OIL

is a premium, heavy duty diesel engine oil designed for use in Compressed Natural Gas (CNG), Liquefied Natural Gas (LNG), Liquefied Petroleum gas (LPG), or Propane engines requiring Cummins CES20092 or Detroit Diesel PGOS 93K16 quality levels.

**CAM2 ALTERNATE FUEL NATURAL GAS BUS ENGINE OIL** are formulated with premium high quality Group II base oils and state of the art additives to provide outstanding lubrication to gaseous fueled engines. **CAM2 ALTERNATE FUEL NATURAL GAS BUS ENGINE OIL**

provides a uniquely balanced premium formulation that minimizes ash deposits, oxidation, nitrification, valve regression and engine wear.

The low-ash content of **CES20092** engine oils are optimized to reduce the formation of "hot-spots" that can lead to increased NOx forming and catalyst poisoning. CAM2 Natural Gas Bus Engine Oil is specifically formulated to neutralize the acids typically generated during operation of gaseous fueled combustion engines. The shear stable viscosity improver combines to provide excellent stability increasing both oil and engine life. Field testing has shown that in properly maintained equipment monitored by an in-service oil monitoring program, CAM2 Alternate Fuel Natural Gas Bus Engine Oil provides outstanding protection over an extended drain interval up to 30,000 miles or 800 hours, whichever comes first. The excellent TBN retention confirmed MB 226.9 capability.

#### CAM2 ALTERNATE FUEL NATURAL GAS BUS ENGINE

**OIL** is recommended in mobile applications where compressed natural gas (CNG), liquid natural gas (LNG), liquefied petroleum gas (LPG) or propane is used.

CAM2 Natural Gas Bus Engine Oil is recommended for bus, delivery and service truck fleets.

#### FEATURES

- Exclusive low-ash formulation with years of proven performance
- Exceptional oxidation and nitration resistance to extend equipment life
- Excellent piston and engine cleanliness
- Excellent neutralization of acidic by-products
- Designed to lubricate naturally aspirated and turbo charged engines
- Strong oil film protects engine against wear and corrosion.
- Can use a variety of fuels: CNG (compressed natural gas), LPG (liquefied petroleum gas), LNG (liquefied natural gas), or Propane
- Low oil consumption with excellent piston deposit control
- Low-ash formulation reduces spark plug fouling, port plugging and pre-ignition
- Catalyst compatible formulation
- High level corrosion protection
- Reduced ash content effectively reduces "hot-spots" extending catalyst life

#### RECOMMENDATIONS

**CAM2 ALTERNATE FUEL NATURAL GAS BUS ENGINE OIL** shows acceptable performance in the following applications:

LNG/CNG Linehaul truck service

LNG/CNG Delivery truck service

LNG/CNG Waste truck service

LNG/CNG Cement truck service

LNG/CNG Oil Field truck servicing

CNG Municipal Bus Service

Light Duty CNG pick-up trucks

\*\*APPLICATIONS CONT ON NEXT PAGE\*\*

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#### APPLICATIONS

**DETROIT DIESEL** DD93K216

**MERCEDES-BENZ** MB 226.9

**RENAULT** RGD

**VOLVO** CNG

**CUMMINS** CES20092, and B1, C1, G5.9, G8.3, L

Gas Plus, and ISL G series

**MAN** 3271-1

**WAUKESHA** COGENERATION

**VOLVO** CNG Fueled Bus Engines

**CATERPILLAR** CNG Fueled Engines

#### TECHNICAL DATA

Product Code	<b>642</b>
Viscosity Grade	15W-40
Density, ppg	7.26
Viscosity @ 40°C, cSt	75.2
Viscosity @ 100°C, cSt	10.2
Viscosity Index	120
Pour Point: °C	-32
Flash Point: °C	255
Calcium wt%	0.1288
Sulfated Ash wt%	<0.9
Phosphorus, wt%	<0.08
Zinc, wt%	0.0850
Total Base Number	7

Contact your CAM2 representative or CAM2 distributor for additional information.

**CAM2 INTERNATIONAL, LLC**

685 HAINING ROAD - VICKSBURG, MS 39183 USA

Telephone 833-715-0016 • Fax 303-679-8988

[www.CAM2.com](http://www.CAM2.com)