

## 217M | **Armor Plate with Moly-D**

LPG OIL

API CF

### DESCRIPTION:

Armor Plate with Moly-D LPG Oil 217-M and Primrose Plus LPG Oil 217 are designed especially for engines fueled with natural or liquefied petroleum gas. Available in all SAE straight grades as well as 15W40 multigrade, these oils are also excellent for certain gasoline and diesel engines.

### COMPOSITION:

Both varieties are formulated using ashless detergent-dispersants, oxidation and rust inhibitors, anti-foam, and anti-wear agents. The highest quality paraffinic base oils plus ashless detergent-dispersants control deposits in combustion chambers of four-cycle and in exhaust ports of two-cycle engines. The anti-corrosion properties and extra rust protection make these custom lubricants superior to other oils of this type. 217-M contains our superior anti-friction component, Moly-D to reduce wear and operating temperatures.

### PERFORMANCE CHARACTERISTICS:

Engines fueled with natural or LP gas have been used for many years in the United States in such established services as water pumping, gas compression, and the generation of electrical power. The oil industry uses these engines to pump feed stock, drive drilling rigs, and pressurize gas transmission lines. Farmers use these engines for irrigation.

Engine operating conditions and the nature of the fuel itself combine to make the lubricating requirements of natural gas engines different from automotive engines. One of the prime requirements of natural gas engines is to be able to operate for long periods of time completely unattended. Constant speed, high sump temperatures and the long drain periods characterize the normal operating conditions of these engines. As a result of these operating parameters, the most prevalent problems occurring in natural gas engines appear to be combustion chamber deposits, spark plug fouling, and oil viscosity increases due to oil oxidation and bearing corrosion.

The expanding market for high output gas engines has created a need for lubricants specially formulated to meet the performance requirements of both two and four cycle engines. 217-M and 217 meet and exceed the MIL-L-2104B and Supplement 1 requirements which include the majority of natural gas engines. They meet Cooper-Bessemer SE-114-2 specification for diesel and gas engine heavy-duty service. In addition, they surpassed the CRC L-38 and Caterpillar L-1 test requirements with respect to oxidation stability, bearing corrosion, ring sticking, wear and deposits in engines fueled with natural gas.

### USES:

Armor Plate with Moly-D LPG Oil 217-M and Primrose Plus LPG Oil 217 are recommended for natural or LP gas engines, either 2-cycle or 4-cycle requiring MIL-L-2104B performance.



# PRIMROSE PLUS

## 217M Armor Plate with Moly-D LPG OIL, API CF

### APPLICATIONS:

Meets and exceeds the following performance requirements:

- Allis-Chalmers
- Ingersoll-Rand
- Caterpillar
- International Harvester
- Cooper-Bessemer
- Waukesha
- Fairbanks-Morse
- White-Superior
- Varity-Perkins
- Acme North America
- Peugeot-Citroen
- Volkswagen
- Kohler
- Tecodrive

### TYPICAL SPECIFICATIONS:

SAE	15W40
API Gravity @ 60°F	29.1
Flash COC °F	440
Vis SUS @ 210°F	76
Viscosity Index	140
Pour Point °F	-30
Sulfated Ash Wt. %	0.45
TBN	5.1