



## Inca<sup>®</sup> Oil

Conoco Inca Oil is a high-quality, compounded lubricant developed for the lubrication of steam engine cylinders and valves, and for the lubrication of industrial and automotive worm gears operating at moderate to high temperatures.

Inca Oil is available in three viscosity grades: ISO 460 (AGMA 7 Comp), ISO 680 (AGMA 8 Comp) and ISO 1000 (AGMA 8A Comp). It is formulated with high-quality paraffinic base oils compounded with an acidless tallow (fatty) oil. It emulsifies with water to maintain excellent lubricity for lubrication and protection of cylinder and valve surfaces in the presence of steam and moisture. It has high film strength and excellent oiliness characteristics for effective lubrication of worm gears.

### **Applications**

- Steam cylinders and valves
- Industrial worm gear drives made with non-ferrous alloys (bronze-on-steel)
- Bearings on steam-heated calender or mixer rolls
- Screw-down bolts and nuts on aluminum and steel rolling mills
- Heavily loaded, low-speed bearings subject to moisture contamination
- Cylinders of gas compressors in wet gas service
- Automotive differentials that require an API GL-2 quality gear oil

### **Features/Benefits**

- Excellent lubricity for protection of sliding surfaces against scuffing
- High film strength
- Emulsifies with water to resist washing
- Good oxidation resistance and thermal stability
- Protects against rust and corrosion
- Non-corrosive to bronze or brass

**Compounded  
Steam Cylinder  
And Worm Gear  
Lubricant**

**U.S. Technical  
Services Hot Line:  
1-800-255-9556**

**U.S. Customer  
Service:  
1-800-640-1956**

**International:  
+1-832-486-3363**

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## Inca® Oil

### Typical Properties

ISO Grade	460	680	1000
AGMA Grade	7 Comp	8 Comp	8A Comp
Density, g/cm <sup>3</sup> @ 15.6°C (60°F)	0.900	0.905	0.915
Density, lbs/gal @ 15.6°C (60°F)	7.49	7.54	7.62
Color, ASTM D1500	5.5	L 8.0	D 8.0
Flash Point (COC), °C (°F)	302 (576)	307 (585)	316 (601)
Pour Point, °C (°F)	2 (36)	2 (36)	15 (59)
Viscosity,			
cSt @ 40°C	460	660	1,000
cSt @ 100°C	30.4	35.0	45.0
SUS @ 100°F	2,466	3,586	5,481
SUS @ 210°F	149	171	219
Viscosity Index	95	85	81
Copper Corrosion, ASTM D130	1a	1a	1a
Rust Test, ASTM D665 A&B	Pass	Pass	Pass

### Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3.conocophillips.com/NetMSDS>.

Due to continual product research and development, the information contained herein is subject to change without notification.

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