

# Blue Flame HB-5™



---

## Product Description

D-A Blue Flame HB-5™ is the first low ash gas engine oil to satisfy Caterpillar's requirements for CD/CF service. It is designed specifically for use in medium and high speed (rpm) gas engines fueled by processed natural gas or other gas sources that may contain corrosive materials. The HardBase™ TBN of five (HB-5) comes from an exclusive detergent/dispersant additive system providing a new level of deposit control for low ash oils while also effectively neutralizing the corrosive by-products of combustion.

D-A Blue Flame HB-5 is formulated with thermally stable, high VI base oils that are naturally resistant to oxidation. These base oils are combined with a unique additive system that further extends oil oxidation life. Special valve cushioning additive components help reduce exhaust valve seat and face wear during severe service. The low ash, low phosphorus composition is compatible with exhaust gas catalytic converters and promotes longer spark plug life for minimized maintenance costs. D-A Blue Flame HB-5 meets API Service Category CD/CF performance requirements.

---

## Product Features and Benefits

Optimum level of active detergent *reduce piston ring and cylinder liner wear.*

Effective detergent alkalinity helps control corrosive wear, *providing additional protection when using poorer quality fuel sources.*

Special additives maximize retention of effective TBN, *providing extra corrosive wear protection during longer service intervals.*

Formulated with thermally stable, high VI base oils in combination with multiple oxidation inhibitors for an oil *with outstanding resistance to oxidation, nitration and viscosity increase for longer oil life.*

Compositionally matched with exhaust gas converters to *minimize loss of converter activity due to poisoning and masking of the catalyst.*

Cushioning additive components lubricate exhaust valve surfaces *for reduced face and seat wear and extended valve service intervals.*

Meets sensitive CD/CF bearing wear requirements *assuring longer bearing life.*

Lower oil volatility and viscosity loss at elevated temperatures *promotes reduced oil consumption rates*, *cleaner combustion chambers, longer spark plug life and longer cylinder head servicing intervals.*

Unique additives *protect against excessive valve sink or recession caused by rapid valve seat and face wear.*

# Blue Flame HB-5™



## Service Applications

### Gas compression and transmission

Wellhead gas pumps

Oil pumps

Irrigation systems

Total energy systems

Waste water treatment cogeneration plants

Landfill gas cogeneration systems

Manure gas cogeneration

### Engine Applications:

- Caterpillar
- Cummins Rio-Grande
- Deutz
- Enterprise
- Fairbanks Morse
- Jenbacher
- Minneapolis-Moline
- Stewart & Stevenson
- Waukesha
- White

For other engine makes and models, consult the D-A Technical Service Department.

### Typical Properties:

SAE Grade	30	40	*15W-40
Viscosity			
@ 100°C, cSt	11.5	14.5	14.0
@ 40°C, cSt	100	145	110
Viscosity Index	102	98	127
Pour Point, °F (°C)	-5 (-21)	10 (-12)	-20 (-29)
Flash Point, °F (°C)	450 (232)	460 (237)	430 (221)
Sulfated Ash, Weight %	0.5	0.5	0.5
Total Base Number, ASTM D2896	4.7	4.7	4.7

\*15W-40 Grade is by special order only. Shipping quantities and timeframes apply. Inquire for specifics.

**To Order D-A Products, Call 1-800-OIL-LUBE (1-800-645-5823)  
Or Fax orders to (317) 923-3884**

D-A Lubricant Company, Inc.

1340 W. 29th Street, Indianapolis, IN 46208 (317) 923-5321 • (317) 923-3884 FAX

[www.dalube.com](http://www.dalube.com) • [dalube@dalube.com](mailto:dalube@dalube.com)