

## Product Description

D-A Blue Flame HB-8<sup>™</sup> is designed specifically for use in engines fueled by processed natural gas or other gas sources that may contain corrosive materials. It is a medium ash, natural gas engine oil engineered for maximum performance in turbocharged or naturally aspirated medium and high speed (rpm) gas engines. It is formulated for exceptional control of engine deposits and wear, minimized exhaust valve recession, longer oil life and limited corrosive wear in both normal and severe service. The HardBase<sup>™</sup> TBN of eight (HB-8) comes from an exclusive detergent/dispersant additive system providing a new level of deposit control for medium ash oils while also effectively neutralizing the corrosive by-products of combustion.

D-A Blue Flame HB-8 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.

## Product Features and Benefits

Optimum level of active detergent reduces piston ring and cylinder liner wear and keep engines cleaner.

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

Special additives maximize retention of effective TBN, providing effective 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.

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.

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.



**D-A Lubricant Company, Inc.**

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## Typical Applications

Gas compression and transmission  
Wellhead gas pumpers  
Oil pumpers  
Irrigation systems  
Total energy systems  
Waste water treatment cogeneration plants  
Landfill gas cogeneration systems  
Manure gas cogeneration

### Engine Applications:

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

Meets Non-Selective Catalytic Reduction (NSCR) catalyst compatibility requirements.

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

## Typical Properties

Blue Flame HB 8 Typical Properties			
SAE Viscosity Grade	J-300	30	40
Viscosity			
@ 100°C, cSt	ASTM D445	11.5	14.5
@ 40°C, cSt	ASTM D445	100	145
Viscosity Index	ASTM D2270	102	98
Pour Point, °F (°C)	ASTM D97	-5 (-21)	10 (-12)
Flash Point, °F (°C)	ASTM D92	450 (232)	460 (237)
Sulfated Ash, Weight %	ASTM D877	0.8	0.8
Total Base Number	ASTM D2896	8	8
CCS @ -20°C, cP	ASTM D5293	n/a	n/a

D-A Part Number	Drum - 55 Gal	52722	52732
	Pail - 5 Gal	n/a	52738

To Order D-A Products, Call 1-800-OIL-LUBE (1-800-645-5823) or Fax orders to 765-482-3065

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