

Moving driving experience forward



IRGALUBE® FE1 Additive for high performance engine oils

When **performance** matters - BASF Lubricant Components make the difference. Horsepower, acceleration, and fuel economy are key features that define the driving experience. Because they are so important, engine oil formulators, vehicle manufacturers, and even drivers continuously look to improve and optimize these three factors. BASF offers an innovative, multipurpose additive for high-performance engine oils where a simple addition unlocks significant benefits and your vehicle gains the power to save on fuel: IRGALUBE® FE1



IRGALUBE® FE1 Makes the difference

Customer benefits

- Organic friction modifier not containing metal or sulfated ash, phosphorus, and sulfur (without SAPS)
- Can be used as a base formulation or as a top-up for any treatment for any engine oil already in use
- Synergistic effects with ZDDP without restricting anti-wear performance
- Improved fuel economy
- Reduced CO₂ emissions
- Financial savings

Cost Savings



Emissions



Climate Change



Renewables



Resource Efficiency



Simple addition unlocks significant benefits

BASF has extensive vehicle test capabilities and works with different 3rd party labs for additional evaluations. In selected applications such as heavy-duty, BASF and its partners jointly run long-term fleet tests to optimize performance parameters of the target application.

Performance highlights

Whether part of the base formulation or as top-up treatment for engine oils already in use, IRGALUBE® FE1 unlocks a number of benefits:

- Improved horsepower
- Improved acceleration
- Improved efficiency of operation
- Observed in heavy-duty vehicles, passenger cars and race cars

Applications

- Passenger and high-performance cars
- Heavy-duty and passenger transportation
- Marine cargo and leisure vessels
- Construction and agriculture equipment



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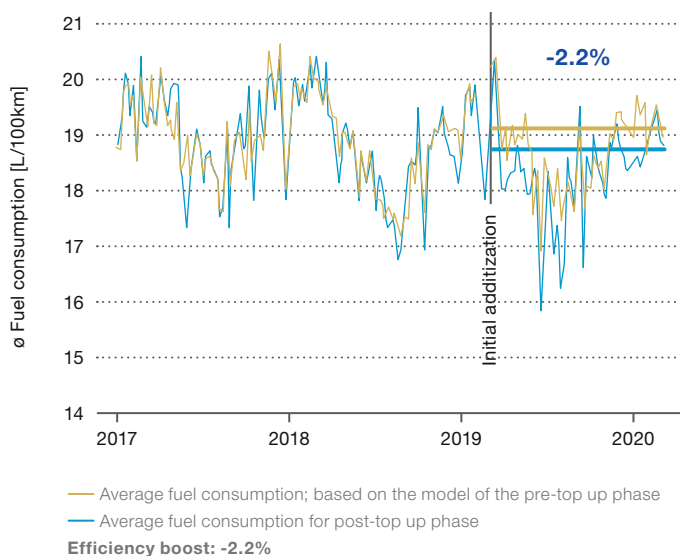
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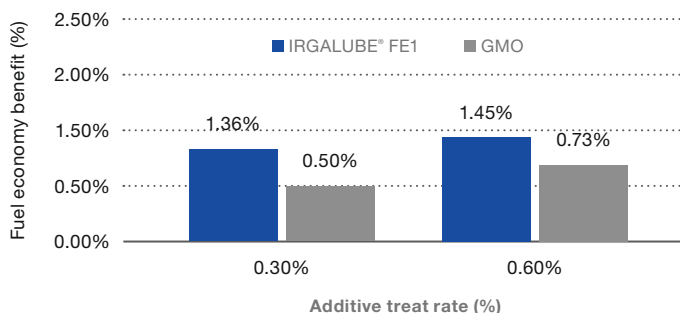
Benefits unlocked: Reduced fuel consumption

Heavy-duty truck example

Modeling ø fuel consumption (Driving)



Passenger car example



Concentration	IRGALUBE® FE1		GMO	
	0.3%	0.6%	0.3%	0.6%
Buick Regal 2.0L GDI	1.17%	1.00%	0.11%	0.66%
Mazda 3 2.0L	1.30%	1.96%	1.53%	1.19%
Honda Civic 1.8L	1.68%	1.62%	0.07%	0.07%
Ford Explorer 2.0L Ecoboost	1.27%	1.23%	0.30%	0.98%
Fuel economy averaged all vehicles	1.36%	1.45%	0.50%	0.73%

