

Customer Testimonial



Monolec Ultra[®] Engine Oil (8800) & Monolec[®] Gear Lubricant (704)

Cleveland Brothers Equipment Company – Pennsylvania

Dynamometer Testing

To demonstrate the energy saving ability of Monolec Ultra[®] Engine Oil (8800) and Monolec[®] Gear Lubricant (704), a Pennsylvania trucking company provided a truck to run dynamometer tests using commercial grade lubricants, followed by a test run with LE lubricants in the same unit.

Cleveland Brothers Equipment Company ran the dynamometer test using their Super Flow dynamometer testing apparatus. This apparatus has the ability to monitor engine speed, vehicle speed, fuel consumption rate, wheel horsepower and other parameters. The unit tested was an International tractor equipped with a Caterpillar 3406B engine rated at 310 hp, a Fuller 13-speed Road Ranger transmission and Eaton differentials. The unit had 56,334 miles on it.

The test was first conducted using a commercial grade 15W-40 engine oil and an 85W-140 gear lubricant in the transmission and both differentials. All components were drained while warm and then filled with LE lubricants. Monolec 8800 was put in the engine; and the transmission and differentials were filled with Monolec 704. The test results were fed into a computer, which adjusted for the temperature and other conditions to provide an accurate evaluation of vehicle performance under the same conditions. The test results show an amazing 0.5 to 1.0 less gallons of fuel burned per hour with LE lubricants and a remarkable 5 hp increase at the rear wheels, with the only change being the change in lubricants.

	Engine	Vehicle Speed	Fuel Consumption, gal/hour		
	rpm	mph	Commercial	LE	LE Savings
Rated	1800	59	15.9	15.4	0.5
1st Lug	1600	53	15.4	14.6	0.8
2nd Lug	1500	49	15.0	14.2	0.8
3rd Lug	1300	42	14.1	13.1	1.0
4th Lug	1100	36	12.7	11.8	0.9

LE saves 0.5 to 1.0 gph, or 3 to 7 percent in fuel

	Engine	Vehicle Speed	Wheel Horsepower		LE Savings
	rpm	mph	Commercial	LE	
Rated	1800	59	275	280	5
1st Lug	1600	53	272	277	5
2nd Lug	1500	49	262	270	8
3rd Lug	1300	42	243	248	5
4th Lug	1100	36	222	220	-2

LE Boosts Average hp by 4.2

Doug Smith, Shop Foreman of Cleveland Brothers Equipment Company said he thought the results would have been even better if a truck had been selected with over 100,000 miles; one that was completely broken in. He further stated, "Gaining one gallon of fuel savings per hour is unbelievable. Gaining five horses with a tight engine is difficult to believe." This outstanding performance is due to the friction and energy reducing capabilities of LE's Monolec[®] lubricants. These products contain a unique wear-reducing additive that works synergistically to reduce friction and provide the best protection available.



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Based on actual user experience. Individual results may vary. Not intended to supersede manufacturer specifications.

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