

# Gasoline Bus Comparison Test

September 2019

**Dealer Use Only**



## GASOLINE BUS BENCHMARKS IC / PSI Blue Bird / ROUSH

### VEHICLE PERFORMANCE

0-30 mph Flat ( 0% )	8.93	7.55
0-30 mph Grade 1 ( 2.18% )	12.01	8.4
0-30 Grade 2 ( 4.25% )	10.19	8.21
0-60 mph Flat ( 0% )	44.97	28.38
<i>*IC 4 to 5 shift causes major power loss, bus lingered in mid 50's working to get to 60 mph</i>		
1/8th Flat ( 0% )	16.41	15.23
1/8th Grade 1 ( 2.18% )	18.65	15.94
1/8th Grade 2 ( 4.25% )	17.6	15.96
1/4 Flat ( 0% )	26.04	24.11
1/4 Grade 2 ( 4.25% )	29.71	26.31
Gallons Used	13.528	8.218
Miles Start	11845	55197.9
Miles End	11918	55270.9
Miles	73	73
Fuel Economy	5.39	8.88

### SOUND PERFORMANCE

Cabin db Acceleration	82.7	75.1
Cabin db Idle	54.9	51.7
Cabin db 40 MPH Cruise	78.5	76.5
DB Idle at Loading Door	66.9	64.6

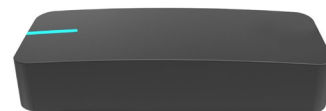
### VEHICLE SPECIFICATION

Horsepower	265	320
Torque	565	460
Rear Axle Ratio	6.17	5.29
Transmission	Allison Auto	Ford Auto
Tire Size	11R22.5	11R22.5
Tire Tread	Hankook M+S RR	Michelin M+S RR
Weight		
Model Year	2019	2018
Mileage	11,845	55,180

### ROUTE INFORMATION

40°F - 63°F Ambient	Rural Highway	1,440 Altitude
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## Devices Used for Testing



dragy 10Hz GPS  
Based Performance  
Meter



Decibel X Pro



Total Cost of Ownership Calculation		IC / PSI Gasoline	Blue Bird Gasoline	Customer Information
<b>FUEL</b>				
Annual Miles per Bus	12,000	12,000		Gasoline Fuel Price <b>\$2.75</b>
Years Operated	10	10		
Total Miles Lifetime Miles per Bus	120,000	120,000		
Fuel Economy (mpg)	5.39	8.88		IC MPG <b>5.39</b>
Gallons Used Annually per Bus	2,226.00	1,351		
Gallons Used Total per Bus	22,263.00	13,513		Blue Bird MPG <b>8.88</b>
Fuel Price / Gallon	\$2.75	\$2.75		
<b>PREVENTATIVE MAINTENANCE</b>				
Oil Interval	5,000	5,000		
Oil Capacity (Quarts)	7.5	7		Years Operated <b>10</b>
Oil Filter Cost	\$4.00	\$4.00		
Oil Cost Per Quart	\$2.55	\$2.55		
Cost Per Oil Change	\$23.13	\$21.85		Annual Miles per Year per Bus <b>12,000</b>
Lifetime Oil Change Total Cost	\$555.00	\$524.40		
Fuel Filter Change Interval	15,000	15,000		
Fuel Filter Cost	\$15.00	\$15.00		
Total Filter Changes	8	8		
Fuel Fiter Cost Lifetime	\$120.00	\$120.00		
<b>ACQUISITION COST</b>				
Incremental Acquisition Cost				
<b>TOTAL COST OF OPERATION</b>		<b>IC / PSI Gasoline</b>	<b>Blue Bird Gasoline</b>	<b>Lifetime Savings</b>
Lifetime Operational Cost/Bus	<b>\$61,898.25</b>	<b>\$37,805.15</b>		<b>\$24,093.10</b>
Cost per Mile to Operate	\$0.52	\$0.32		

## Key Takeaways

### The Blue Bird / ROUSH CleanTech Gasoline Bus...

- ✓ tested better performance in all categories compared to the competition.
- ✓ tested better fuel efficiency compared to the competition.
- ✓ has the best performance with the lowest Total Cost of Ownership when comparing both gasoline school buses.

For more information on the Gasoline Bus Comparision Study conducted, please contact your ROUSH CleanTech business development manager.