

USAC Data Savings Analysis - 8 Series

Fuel	Variables	Toyota	CAT	Nissan	Yale
Cycles per hour (USAC Test Data)		23.1	22.98	23.2	22.6
Lb LPG per cycle (USAC test)		0.12	0.15	0.14	0.13
Fuel cost per lb.	\$0.50				
Hours per year	1200				
Cycles per year		27720	27576	27840	27120
lbs LPG per year (Lbs per cycle x Cycles per year)		3354	4081	3953	3471
Fuel Cost per year per truck		\$1,677	\$2,041	\$1,977	\$1,736
Trucks in Fleet	3				
Fleet Fuel Cost per year.		\$5,031	\$6,122	\$5,930	\$5,207

Toyota Estimated Fuel Savings Analysis	Variables	Toyota	CAT	Nissan	Yale
Fuel Savings (in #) Based on USAC Test Data			727	599	117
Fuel Savings per forklift per year			\$364	\$300	\$59
Fleet Annual LPG cost Savings			\$2,181	\$1,797	\$352

Productivity	Variables	Toyota	CAT	Nissan	Yale
Cycles per hour (per USAC test)		23.1	22.98	23.2	22.6
Labor Costs	\$30.00				
Hours per year	1200				
Cost per cycle		\$1.30	\$1.31	\$1.29	\$1.33
Cycles Per year		46200	27576	27840	27120

Toyota Estimated Labor Savings Analysis	Toyota	CAT	Nissan	Yale
Productivity Gain (Per USAC Test Data)		0.01	0	0.02
Estimated Labor Hours Saved per year		10	-5.16	26.4
Estimated labor cost saving per year		\$314	-\$155	\$792
Estimated Fleet Labor Cost savings per year		\$941	-\$464	\$2,376

Toyota Estimated Total Fleet Annual Savings	Toyota	CAT	Nissan	Yale
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Fleet fuel Savings
Fleet labor cost Savings
Total Estimated Fleet Savings

\$2,181	\$1,797	\$352
\$941	-\$464	\$2,376
\$3,122	\$1,333	\$2,728

1 gallon LPG = 4.24 lbs.

\$ per Gallon	=	\$ per lb
\$2.00		\$0.47