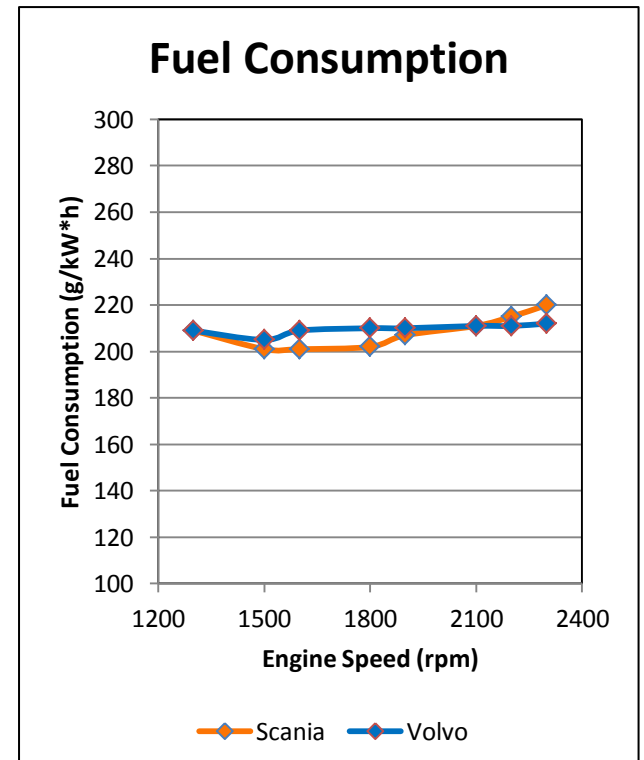
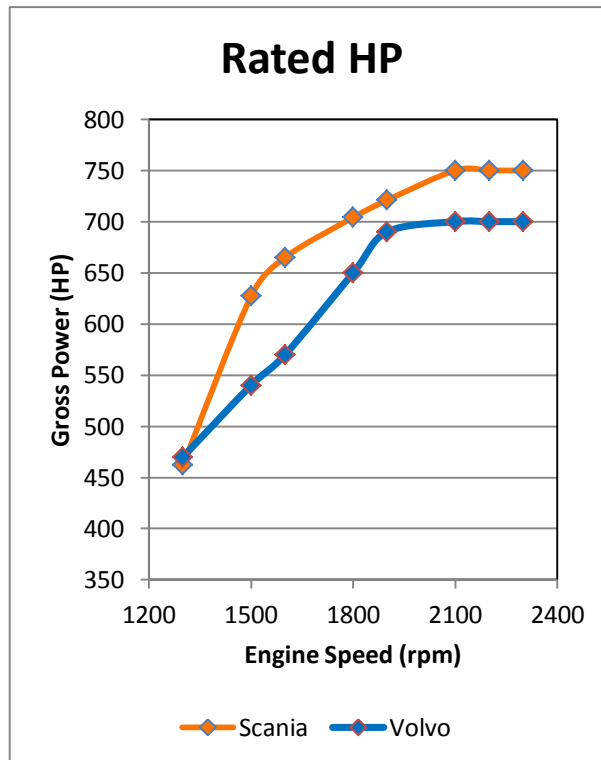
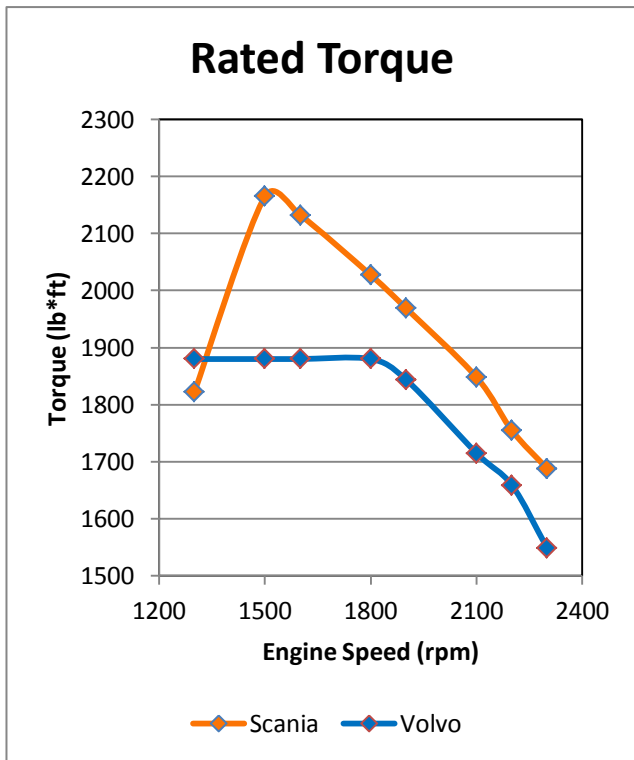


# ENGINE COMPARISON

VOLVO DI13 700HP @ 2300 RPM	RPM	1300	1500	1600	1800	1900	2100	2200	2300
TORQUE (lb*ft)		1880	1880	1880	1880	1844	1715	1659	1549
HP		470	540	570	650	690	700	700	700
FUEL CONSUMPTION (L/h)		209	205	209	210	210	211	211	212

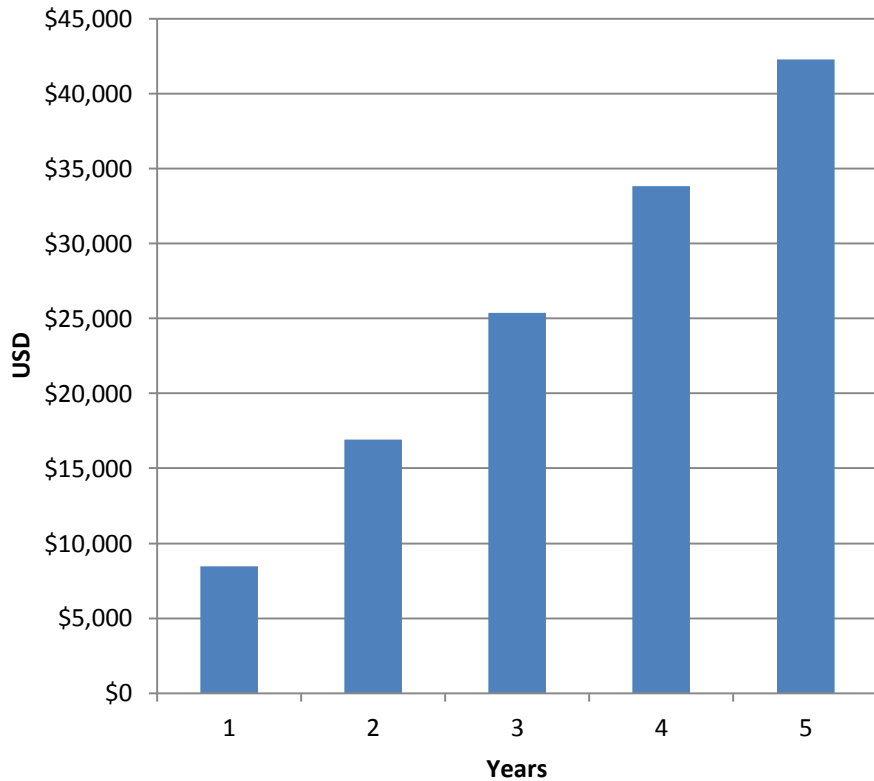
SCANIA DI13 77M 750HP @ 2300 RPM	RPM	1300	1500	1600	1800	1900	2100	2200	2300
TORQUE (lb*ft)		1822	2165	2132	2027	1969	1848	1755	1688
HP		462	627	665	704	721	750	750	750
FUEL CONSUMPTION (L/h)		209	201	201	202	207	211	215	220

<b>TOTAL AVG:</b>	<b>7%</b>	<b>TORQUE % DIFFERENCE:</b>	<b>-3%</b>	<b>15%</b>	<b>13%</b>	<b>8%</b>	<b>7%</b>	<b>8%</b>	<b>6%</b>	<b>9%</b>
<b>TOTAL AVG:</b>	<b>7%</b>	<b>HP % DIFFERENCE :</b>	<b>-2%</b>	<b>16%</b>	<b>17%</b>	<b>8%</b>	<b>4%</b>	<b>7%</b>	<b>7%</b>	<b>7%</b>
<b>TOTAL AVG:</b>	<b>1%</b>	<b>FUEL CONSUMPTION % DIFF. :</b>	<b>0%</b>	<b>2%</b>	<b>4%</b>	<b>4%</b>	<b>1%</b>	<b>0%</b>	<b>-2%</b>	<b>-4%</b>



## PROP FUEL COMPARISON ANALYSIS

### Avg. Fuel Savings for 2000 hr Cycle



<b>SCANIA ENGINE</b>		
Fuel Consumption at 2100 RPM	109.00	L/h
Fuel Consumption at 2100 RPM	28.79	gal/h
Running Time	2000	h
Yearly Fuel Consumption	57589.52	gal/yr
Fuel Cost	\$4.00	/gal
Total Fuel Cost	\$230,358.07	/yr

<b>VOLVO ENGINE</b>		
Fuel Consumption at 2100 RPM	113.00	L/h
Fuel Consumption at 2100 RPM	29.85	gal/h
Running Time	2000	h
Yearly Fuel Consumption	59702.89	gal/yr
Fuel Cost	\$4.00	/gal
Total Fuel Cost	\$238,811.58	/yr

Year	1	2	3	4	5
Fuel Savings	\$8,454	\$16,907	\$25,361	\$33,814	\$42,268

<b>Total Fuel Savings After 5 Years</b>	<b>\$42,268</b>
---	-----------------