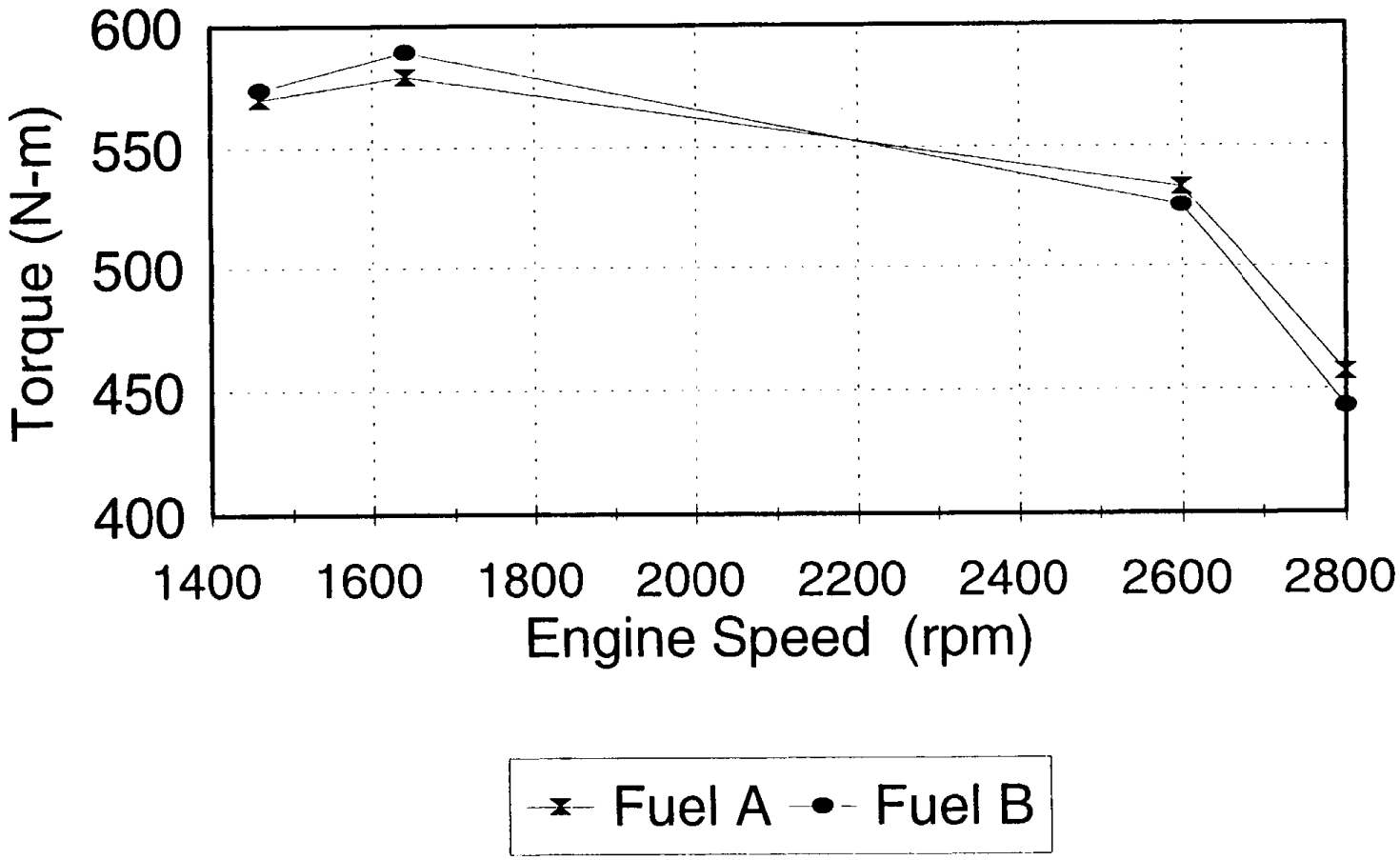
APPENDIX F-1

100 PERCENT LOAD COMPARISON PLOTS

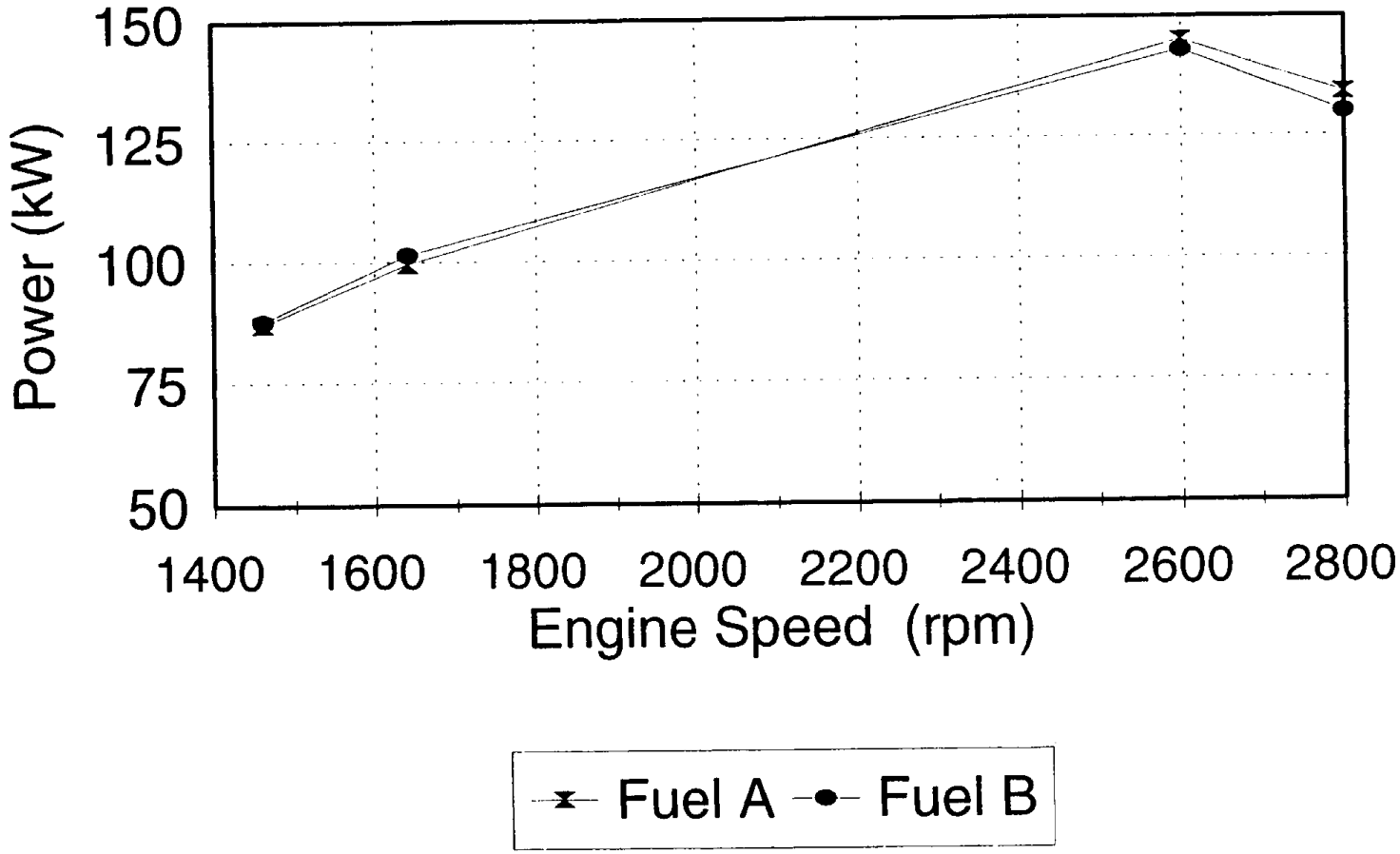
Torque vs. Speed

100% Load



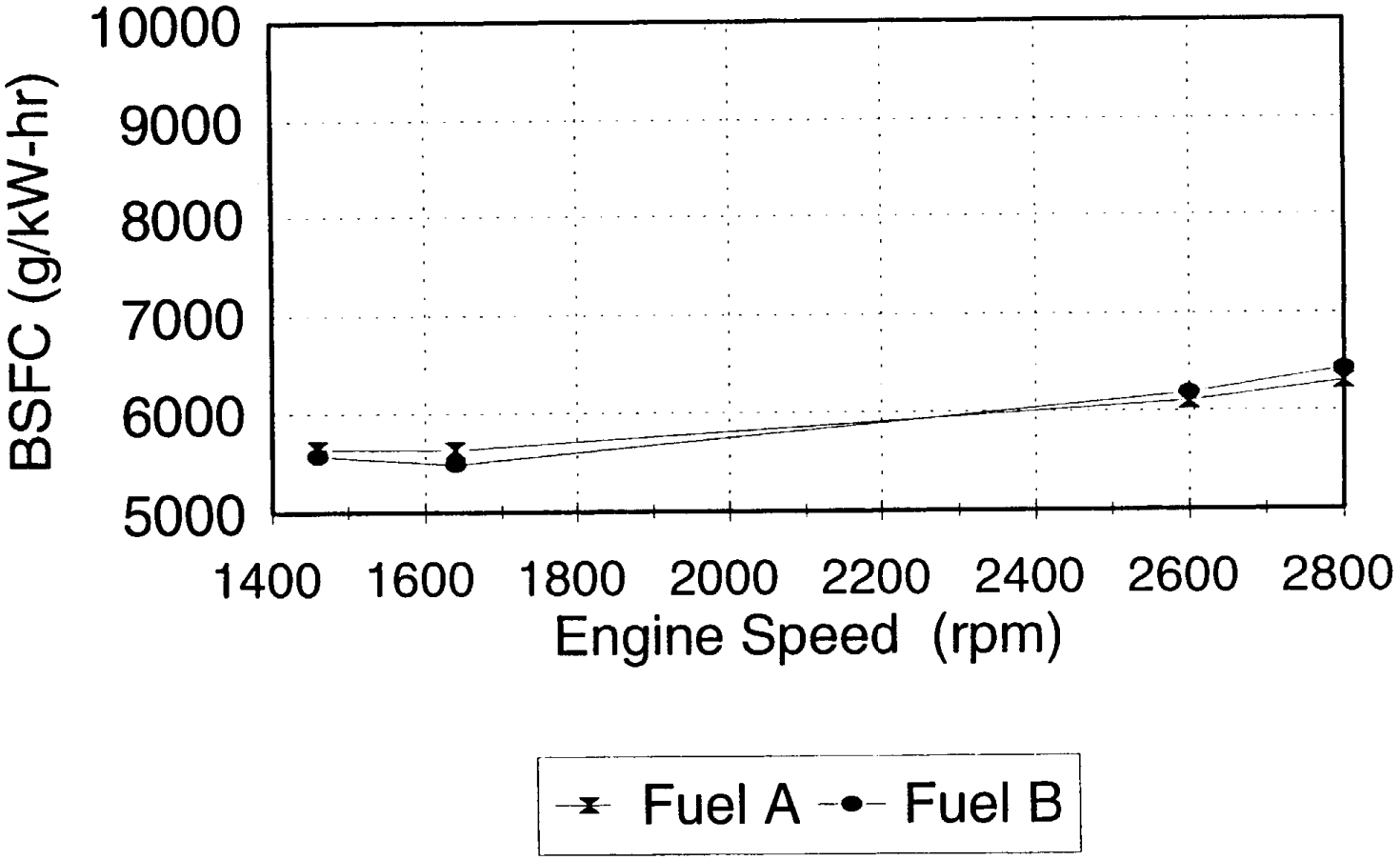
Power vs. Speed

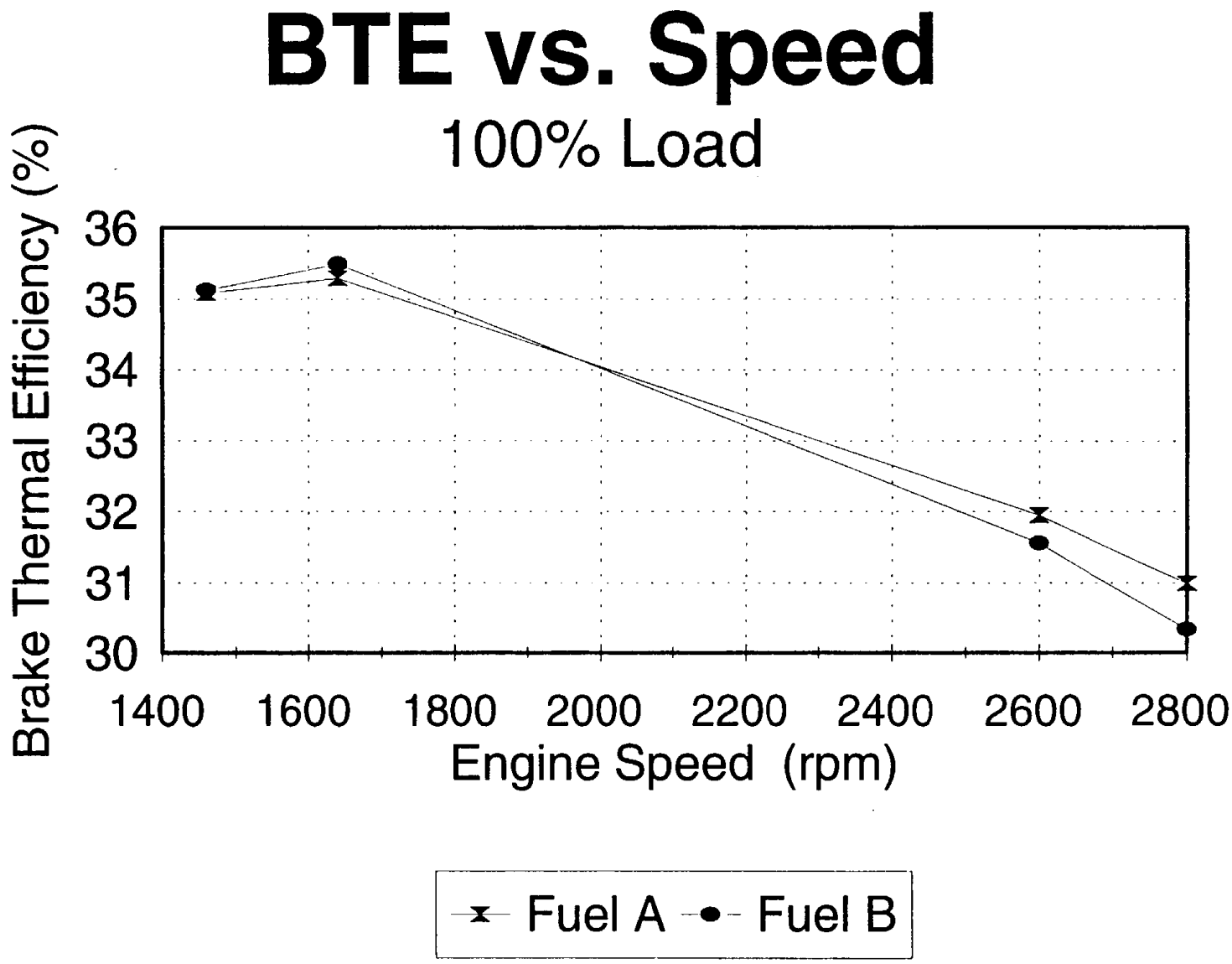
100% Load



BSFC vs. Speed

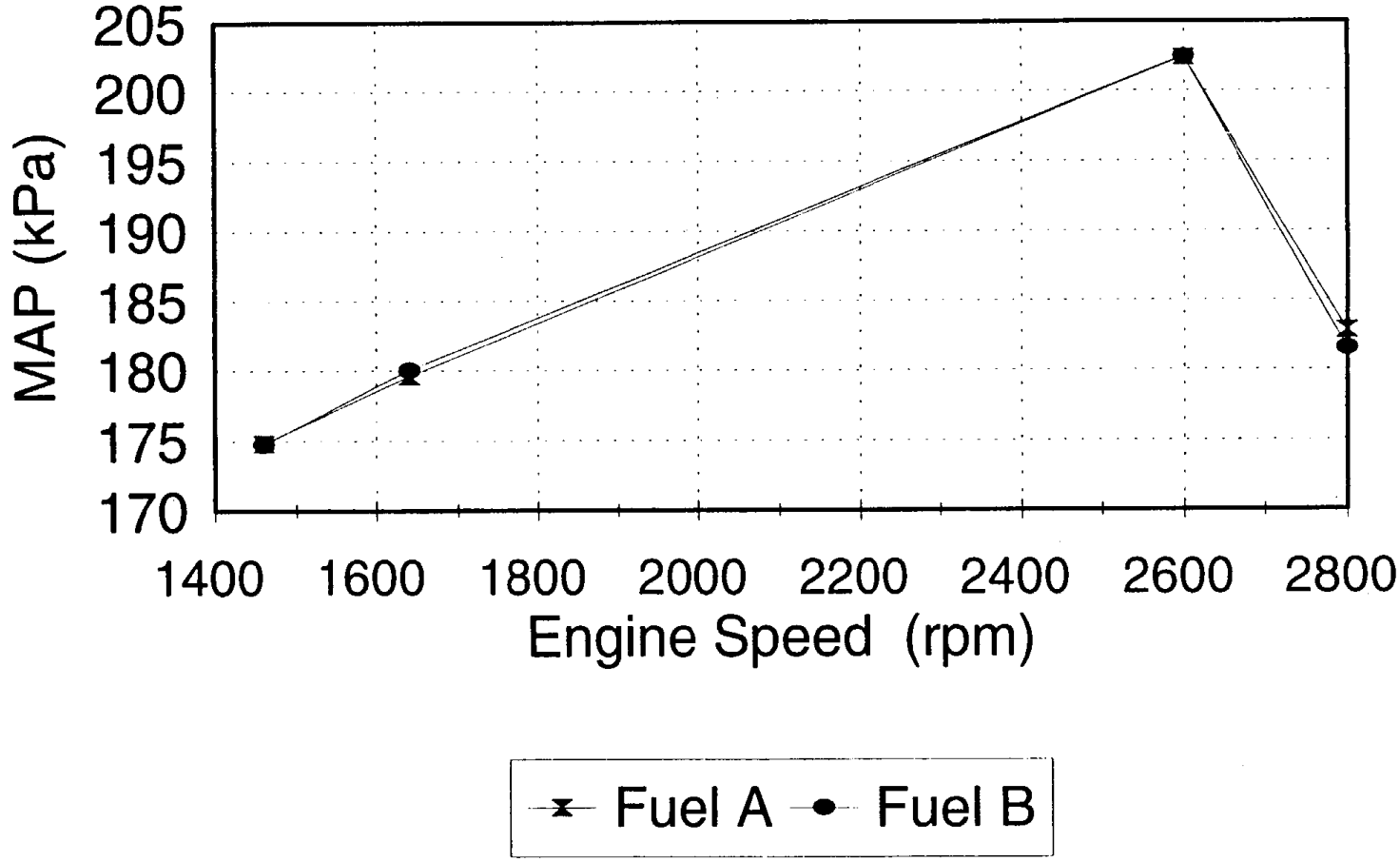
100% Load




BTE vs. Speed
100% Load
Brake Thermal Efficiency (%)
36
35
34
33
32
31
30
1400
1600
1800
2000
2200
2400
2600
2800
Engine Speed (rpm)
Fuel A
Fuel B

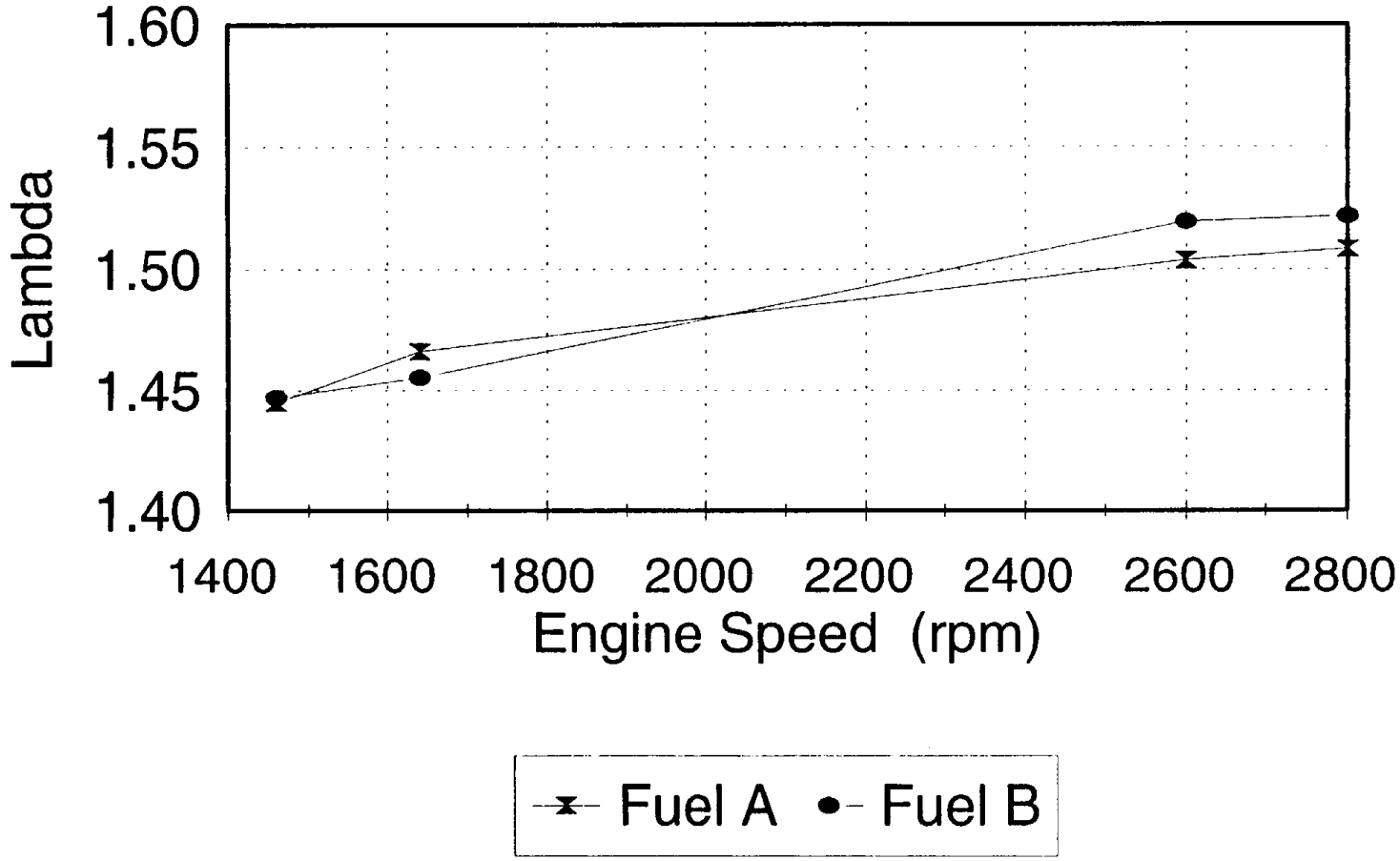
MAP vs. Speed

100% Load



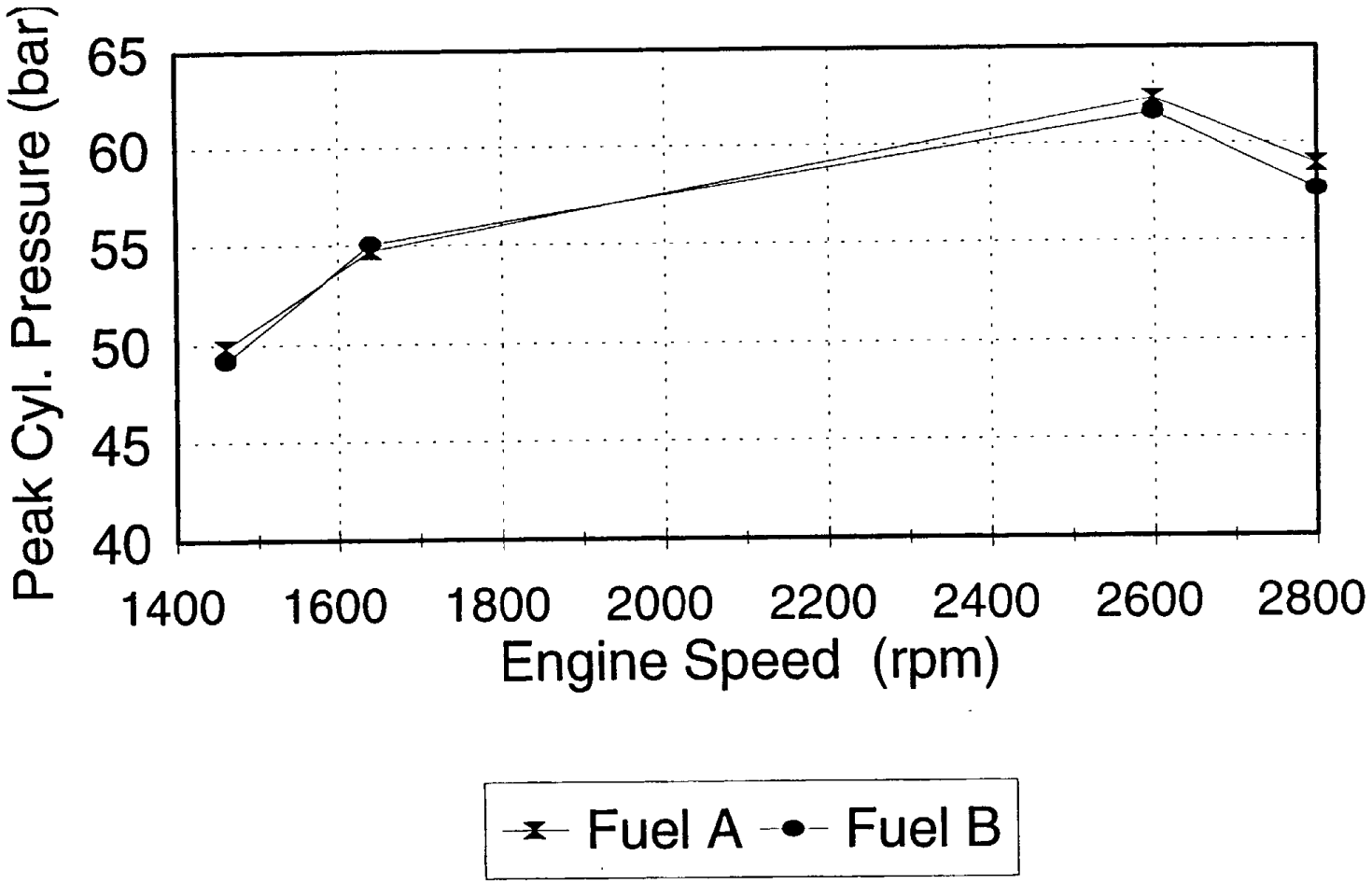
Lambda vs. Speed

100% Load



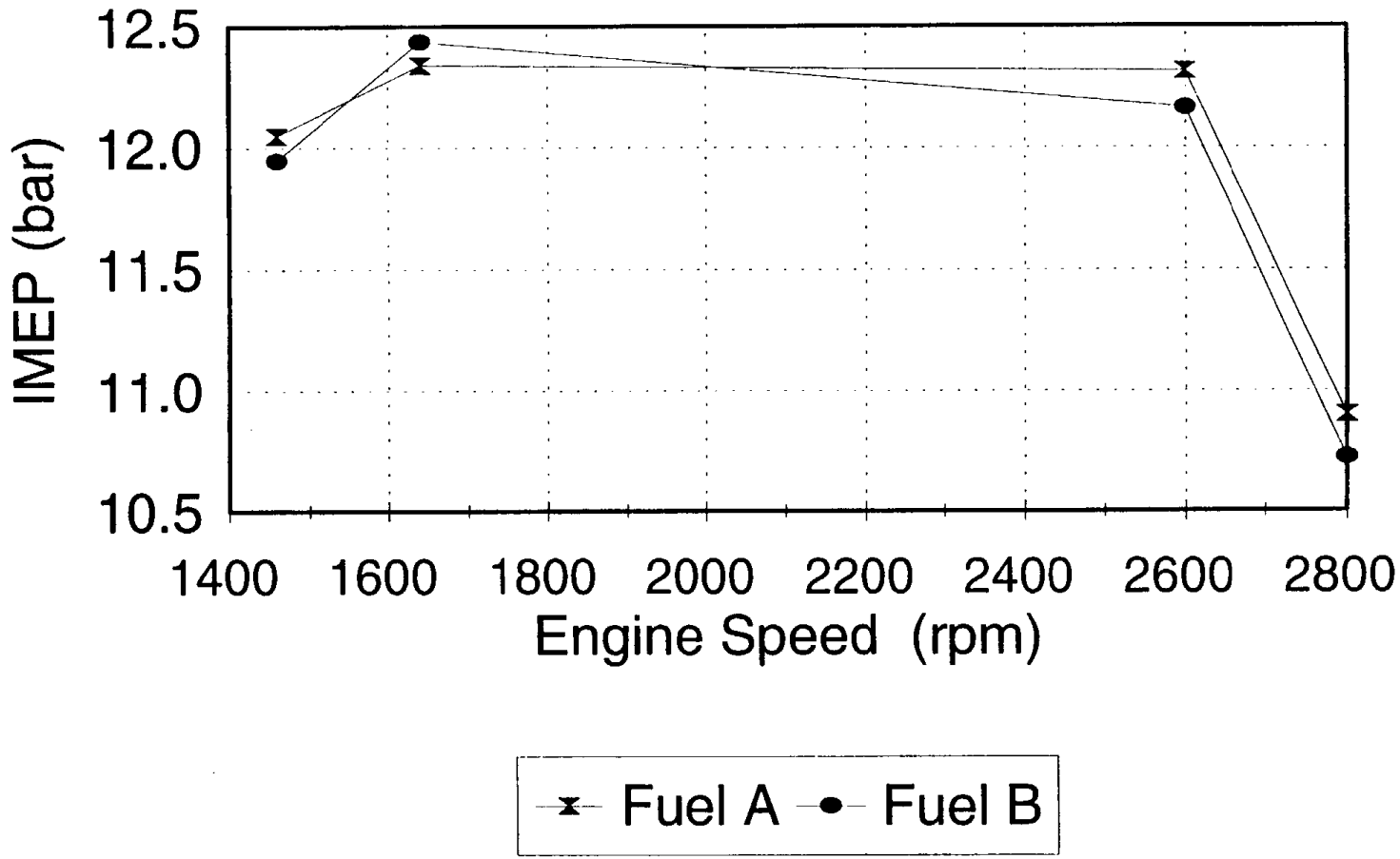
Peak Cyl Pressure vs. Speed

100% Load



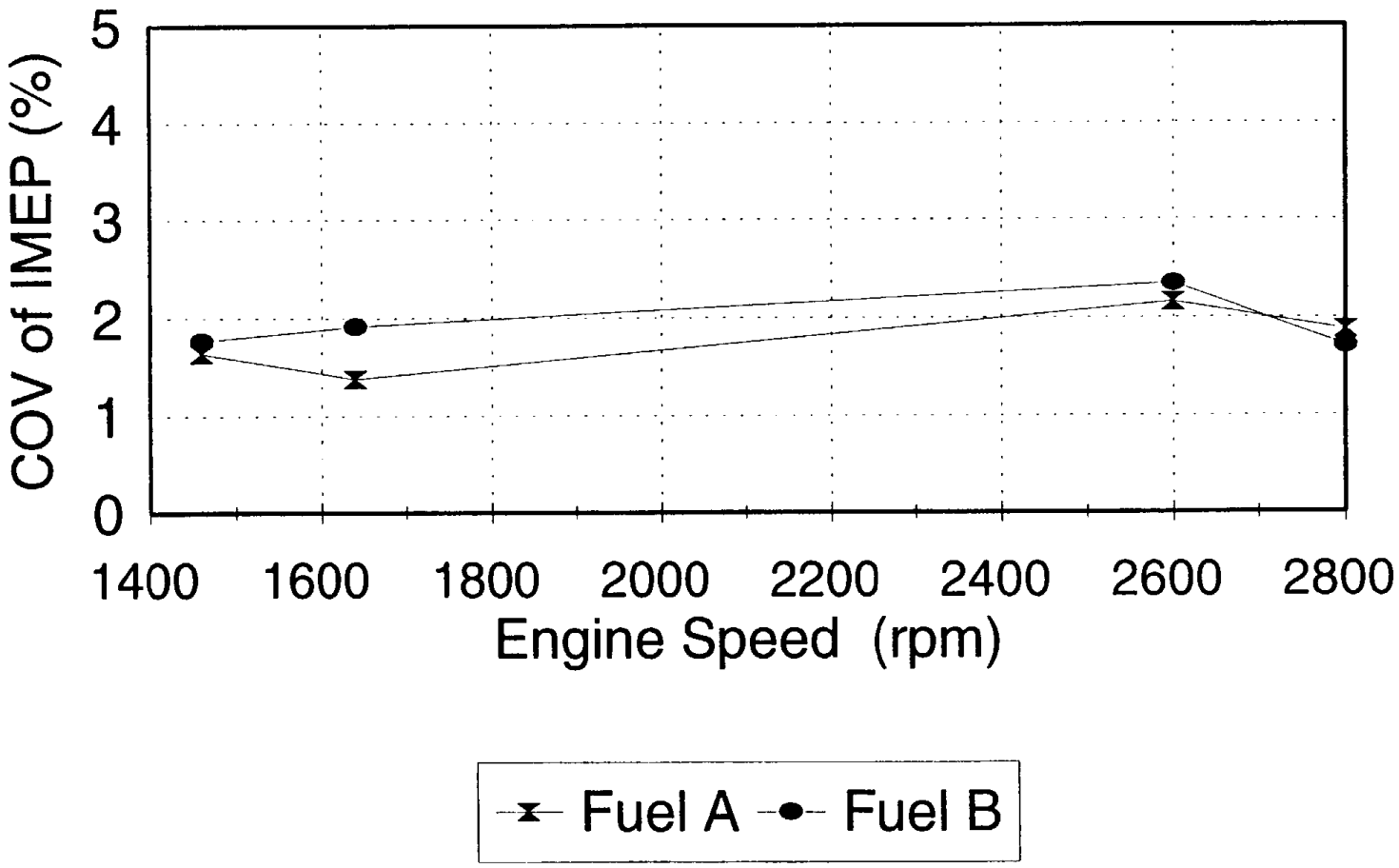
IMEP vs. Speed

100% Load



COV of IMEP vs. Speed

100% Load

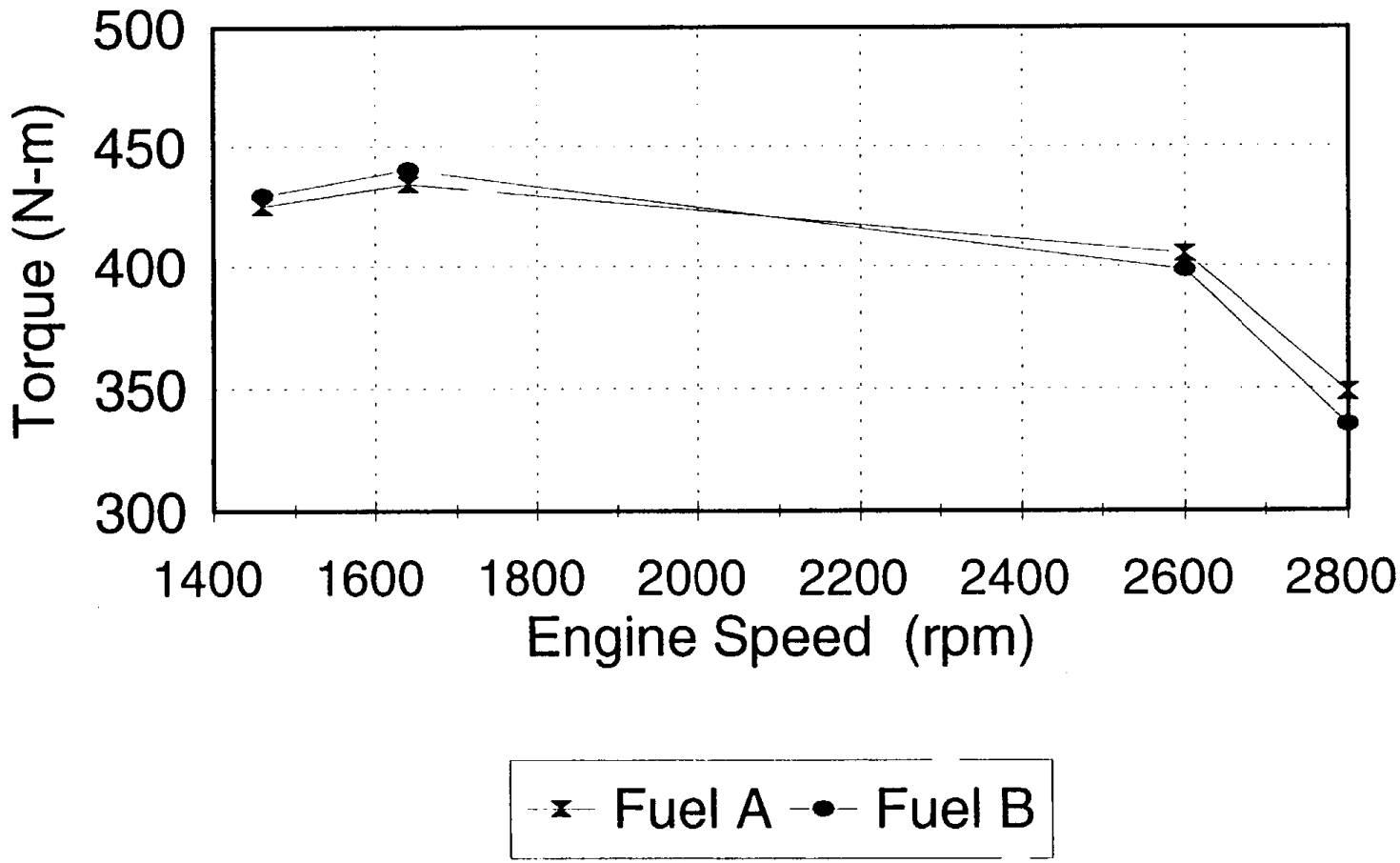


APPENDIX F-2

75 PERCENT LOAD COMPARISON PLOTS

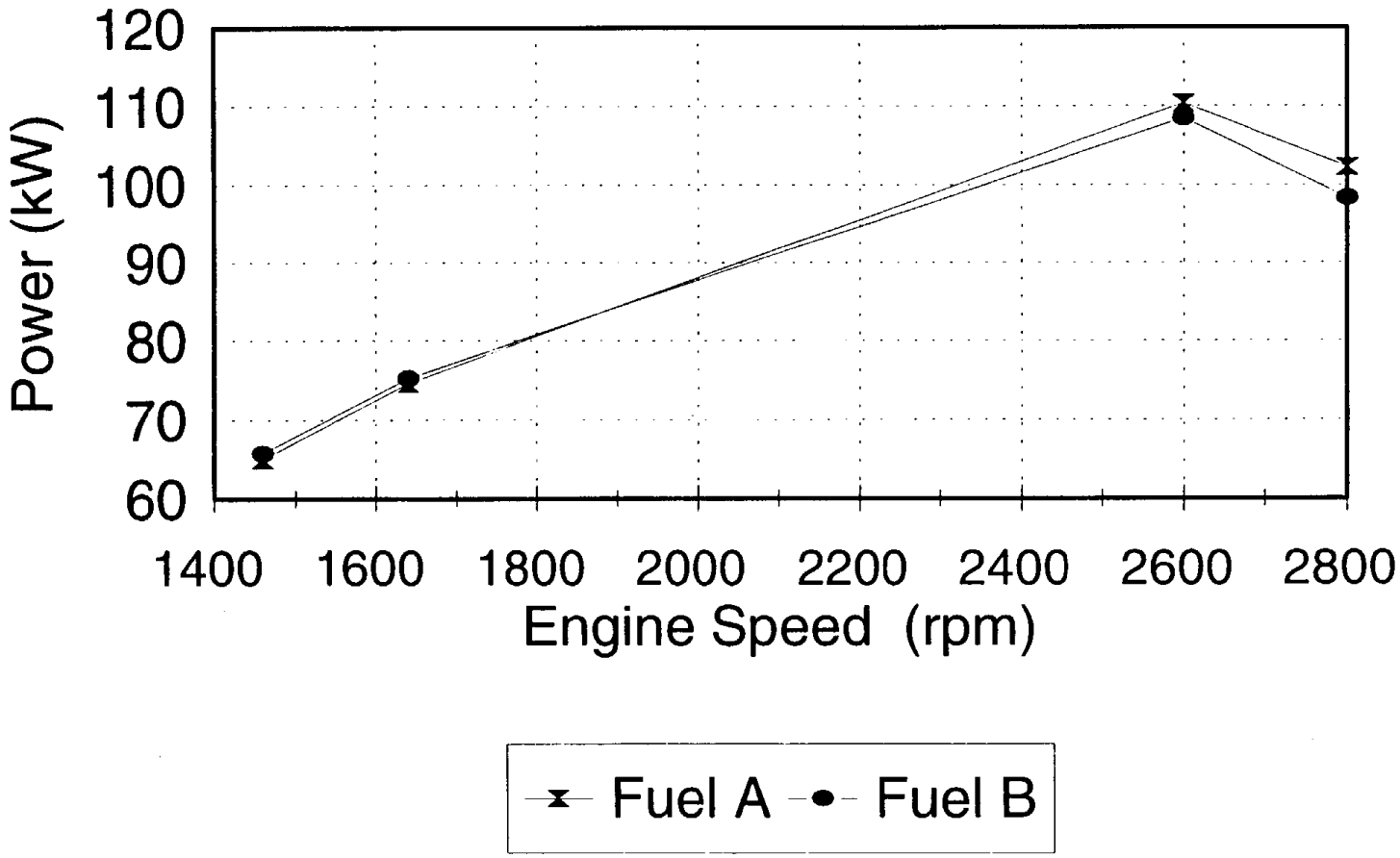
Torque vs. Speed

75% Load



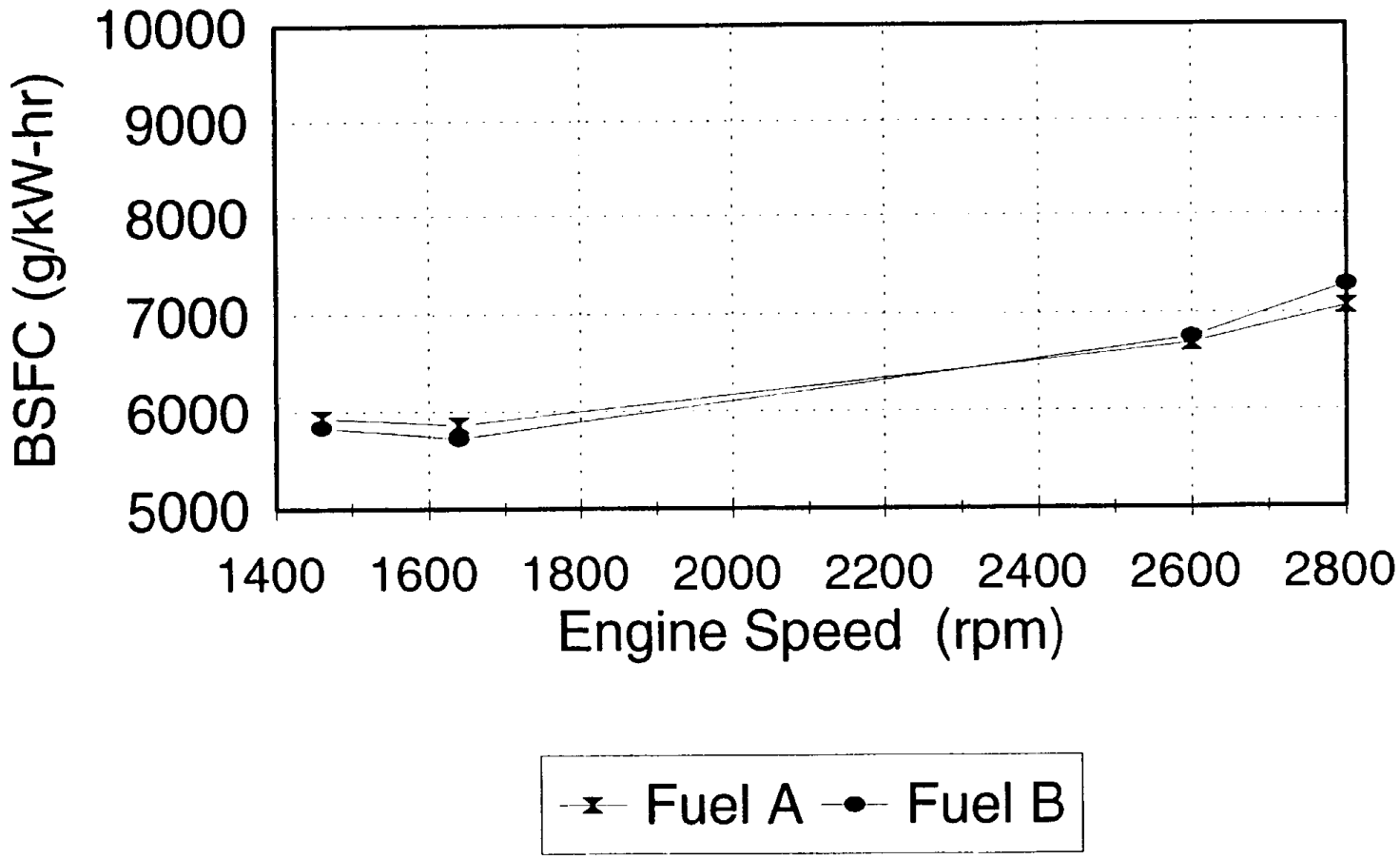
Power vs. Speed

75% Load



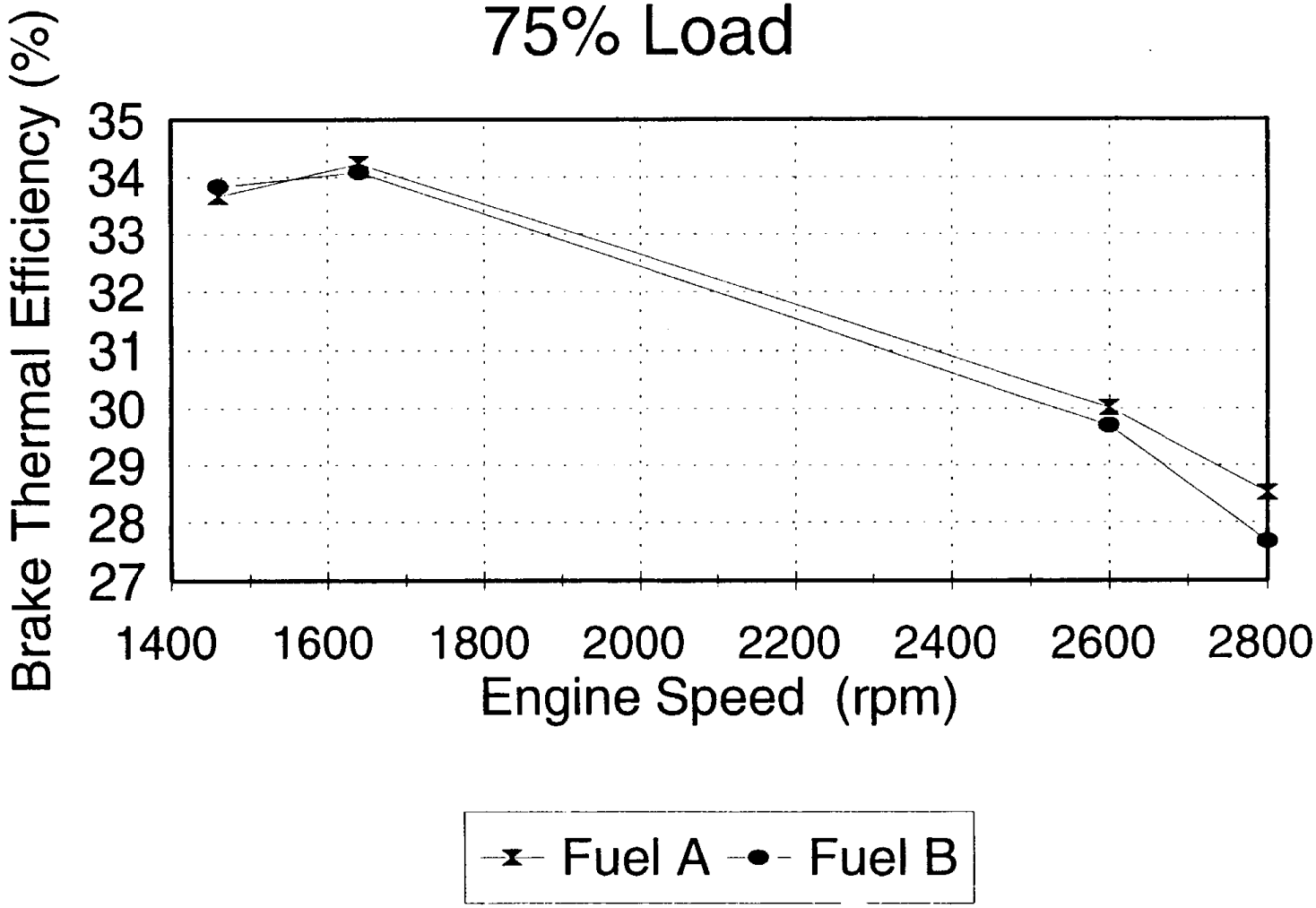
BSFC vs. Speed

75% Load



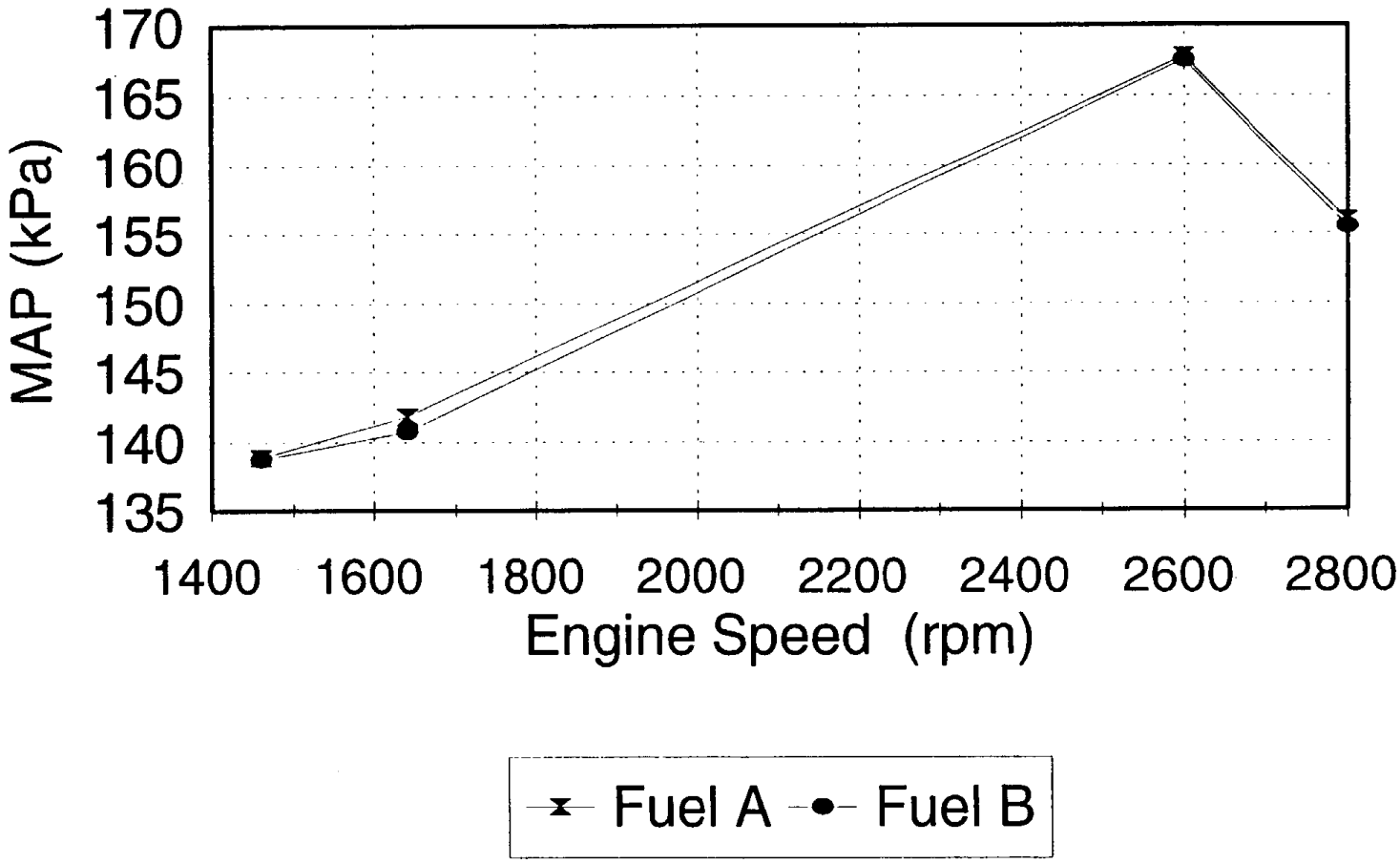
BTE vs. Speed

75% Load



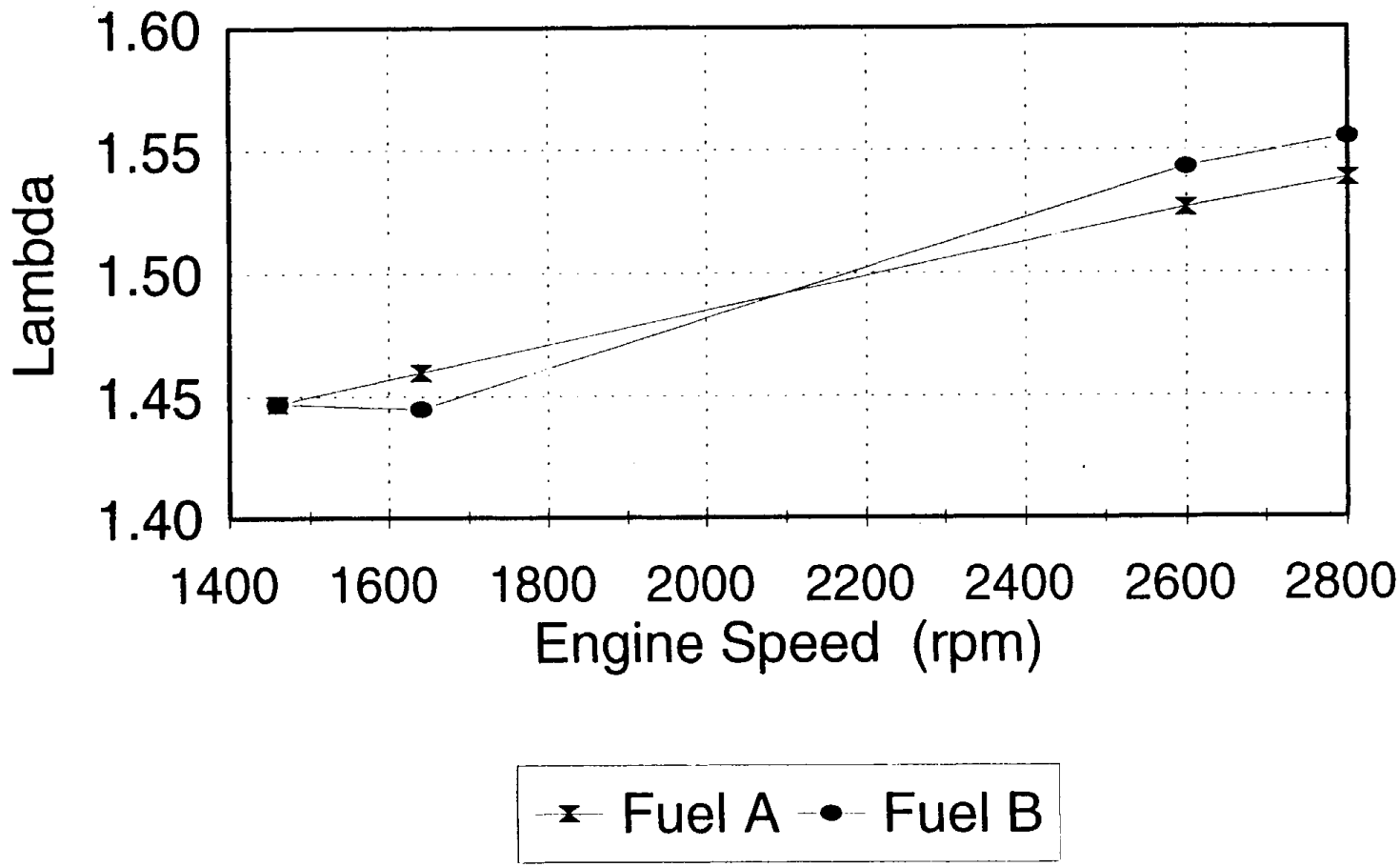
MAP vs. Speed

75% Load



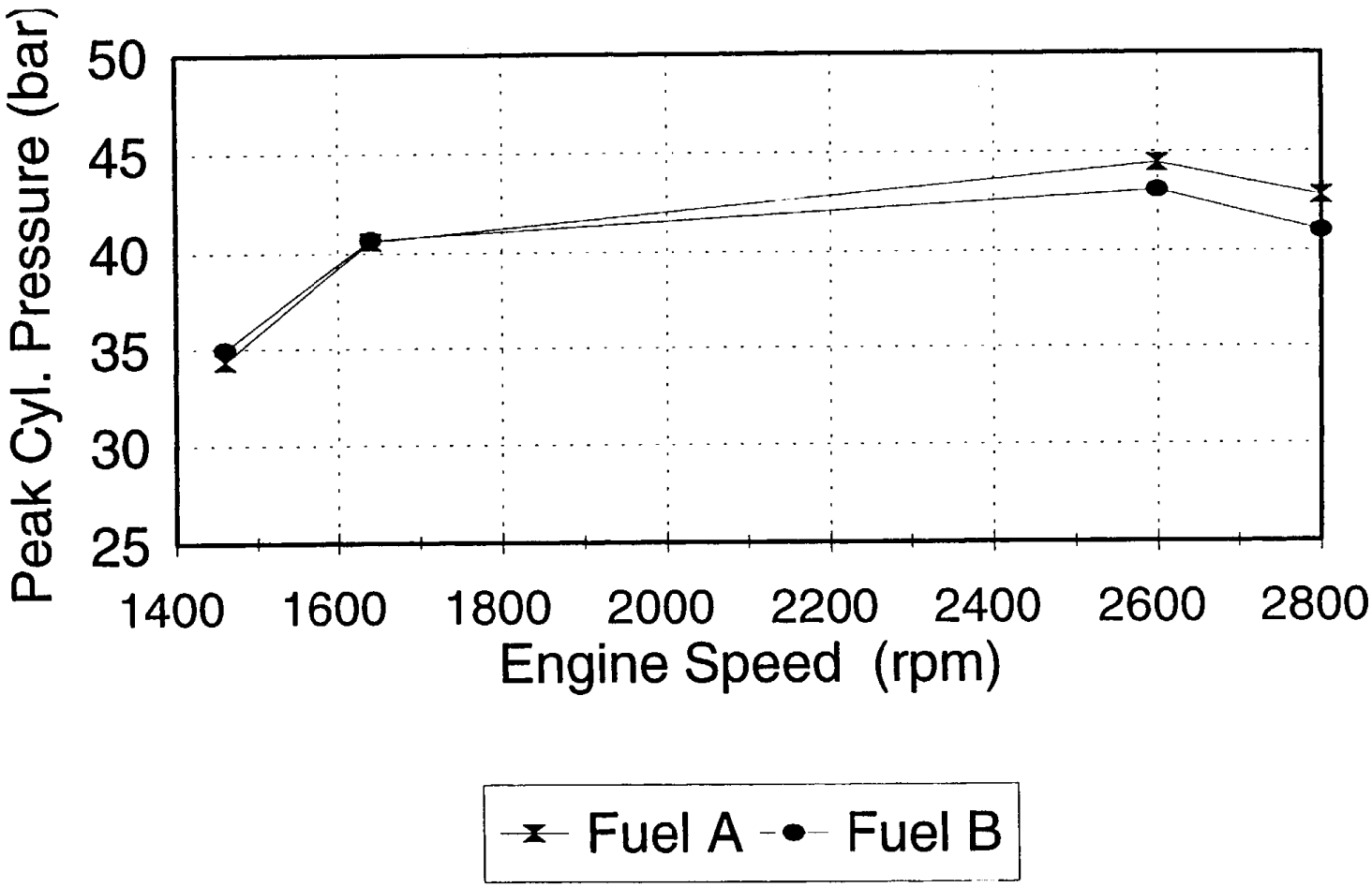
Lambda vs. Speed

75% Load



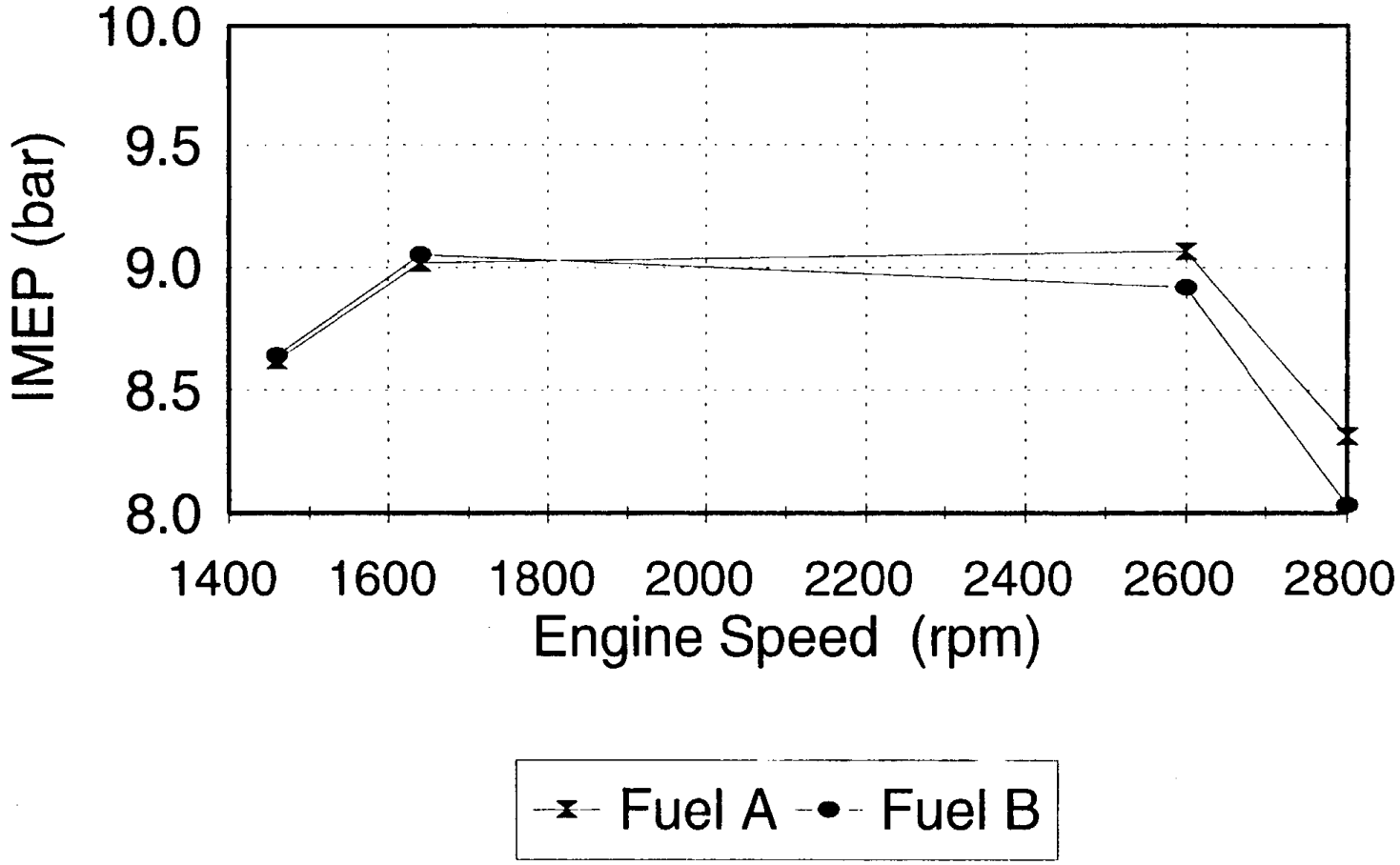
Peak Cyl Pressure vs. Speed

75% Load



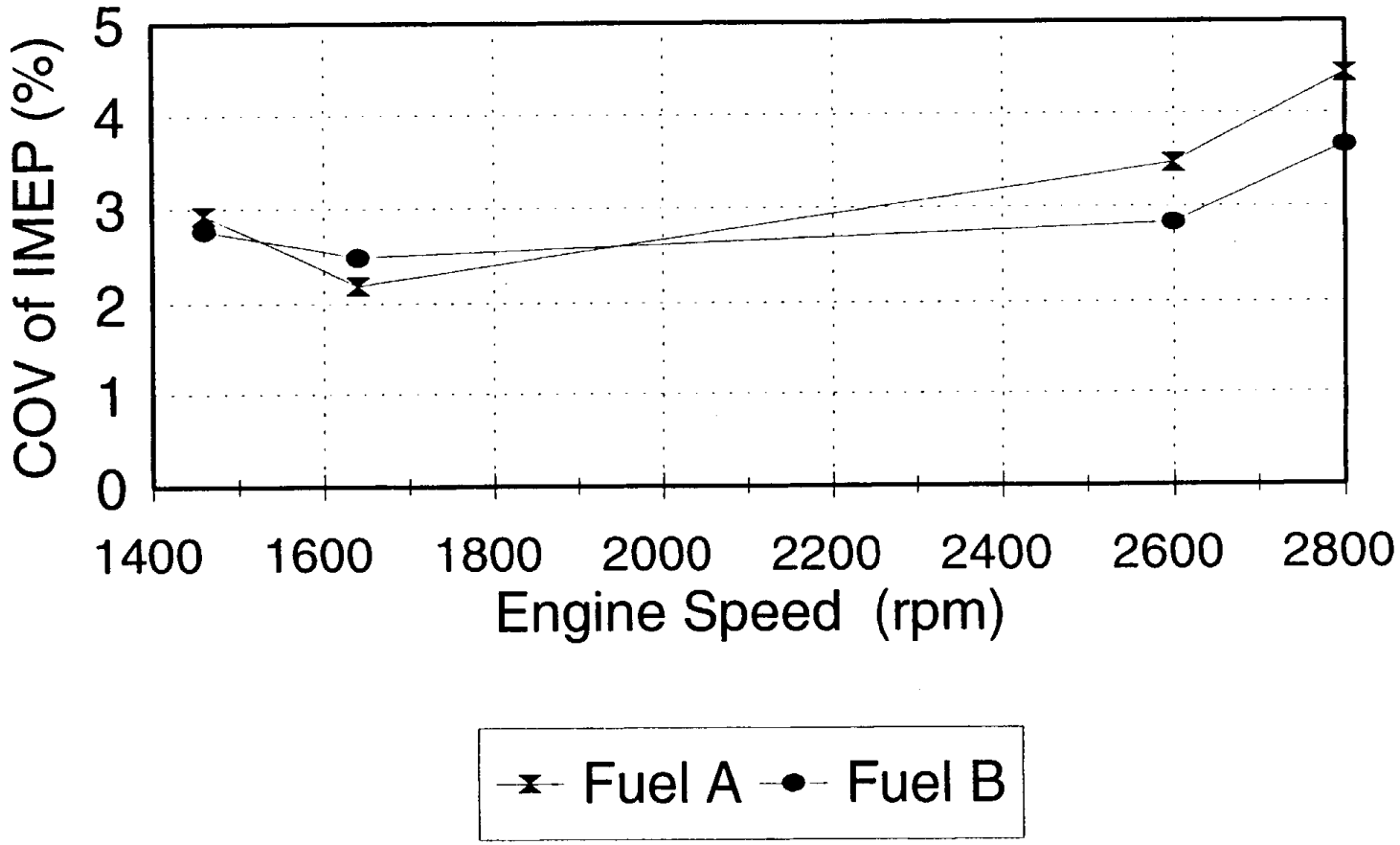
IMEP vs. Speed

75% Load



COV of IMEP vs. Speed

75% Load

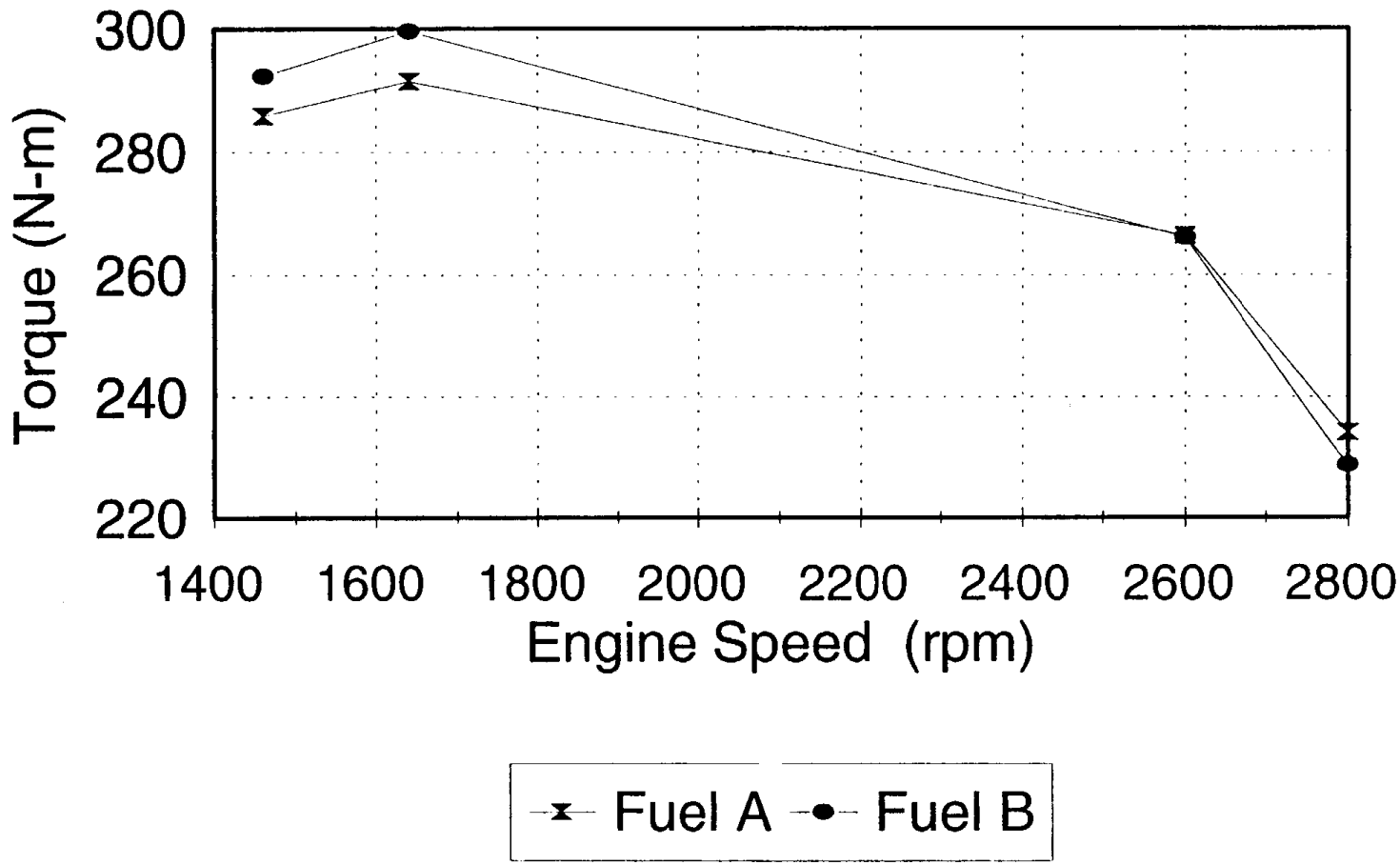


APPENDIX F-3

50 PERCENT LOAD COMPARISON PLOTS

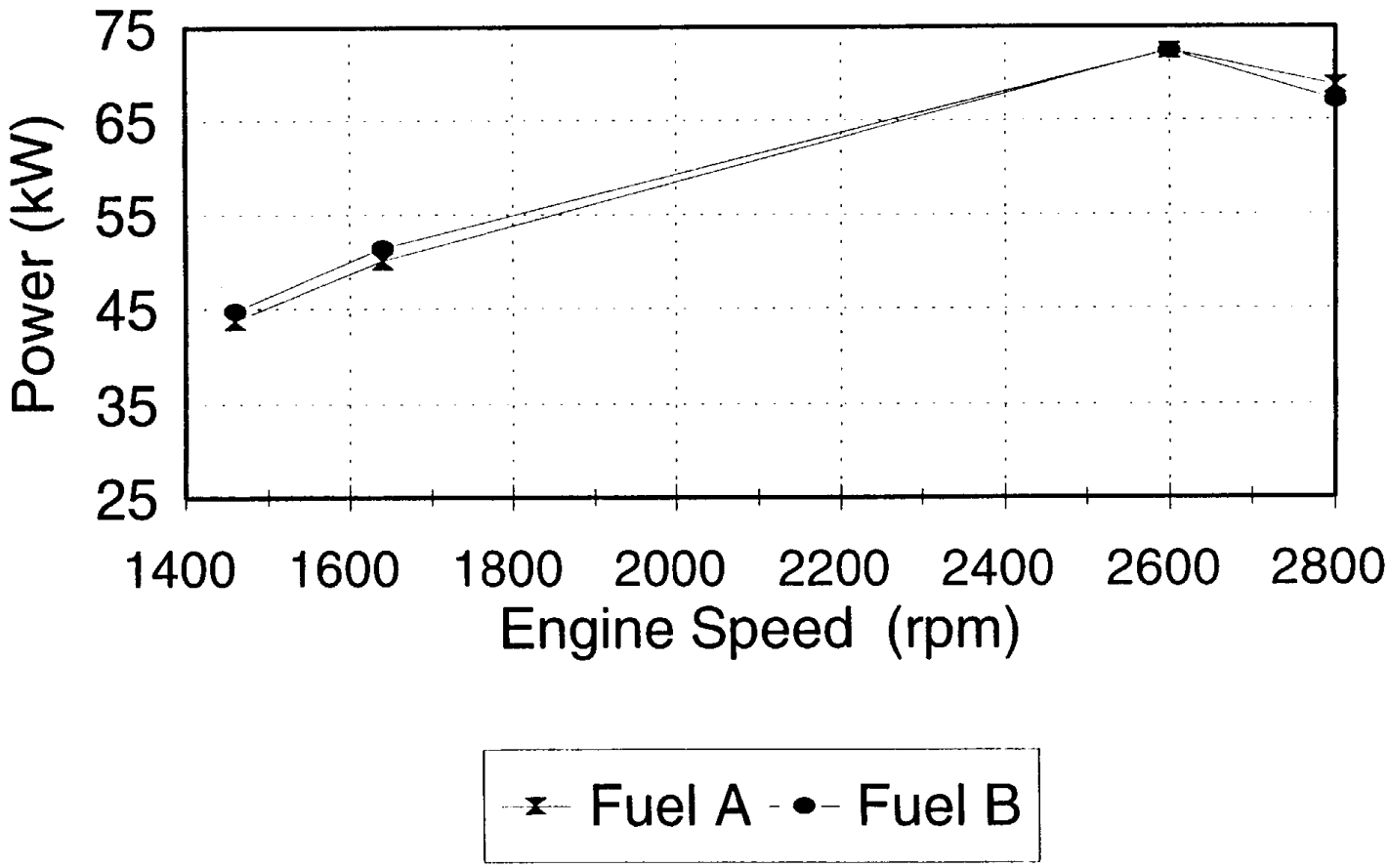
Torque vs. Speed

50% Load



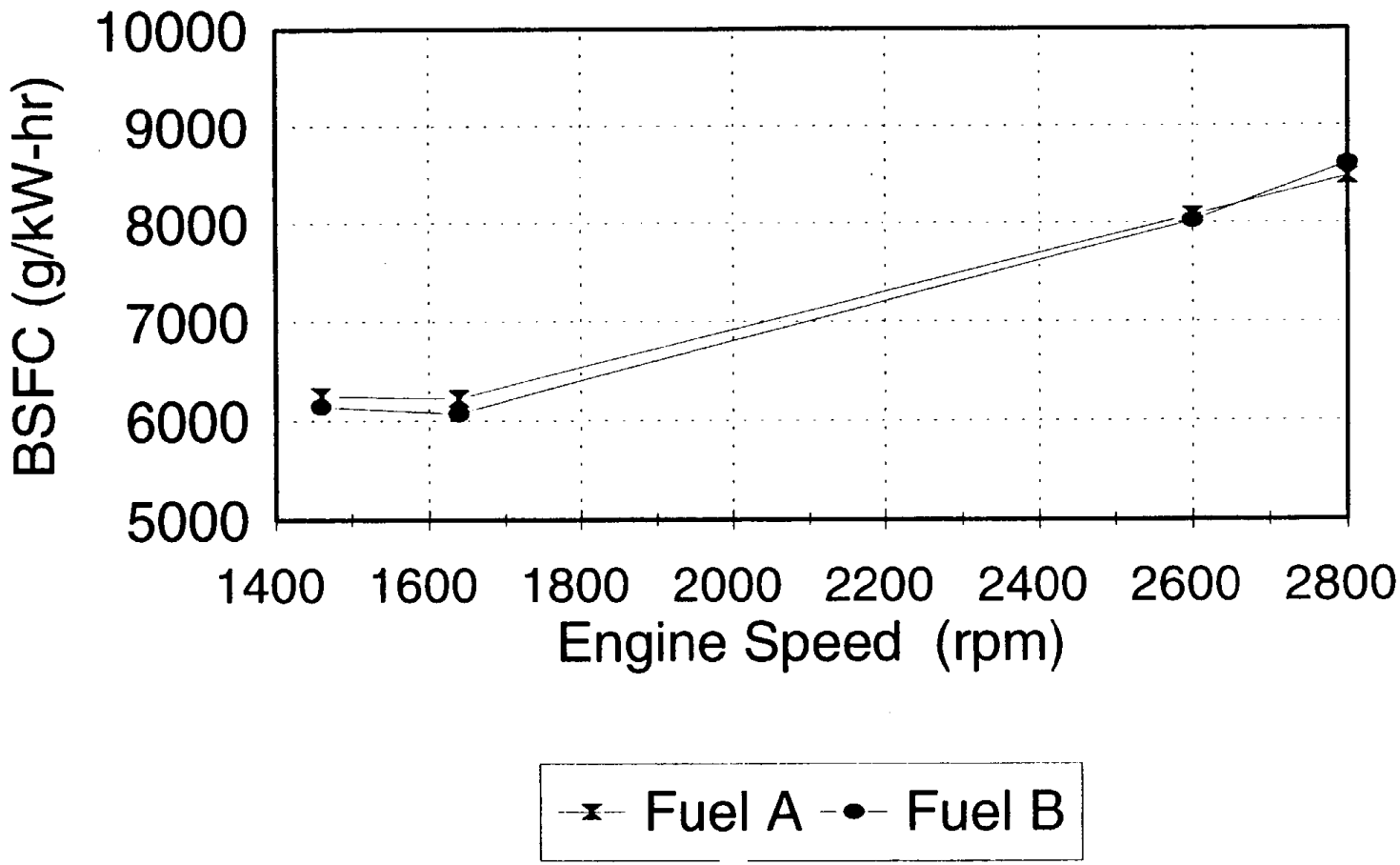
Power vs. Speed

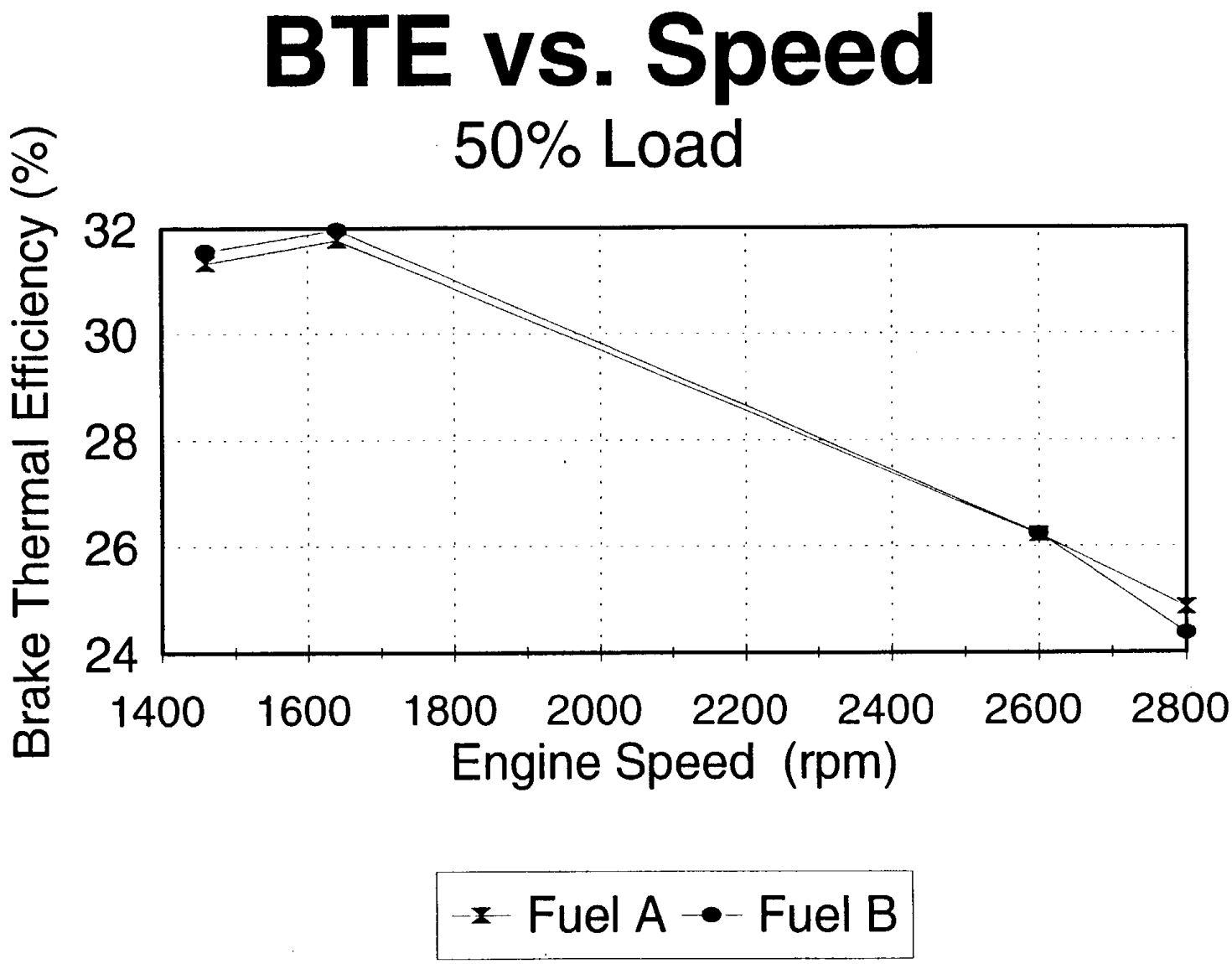
50% Load



BSFC vs. Speed

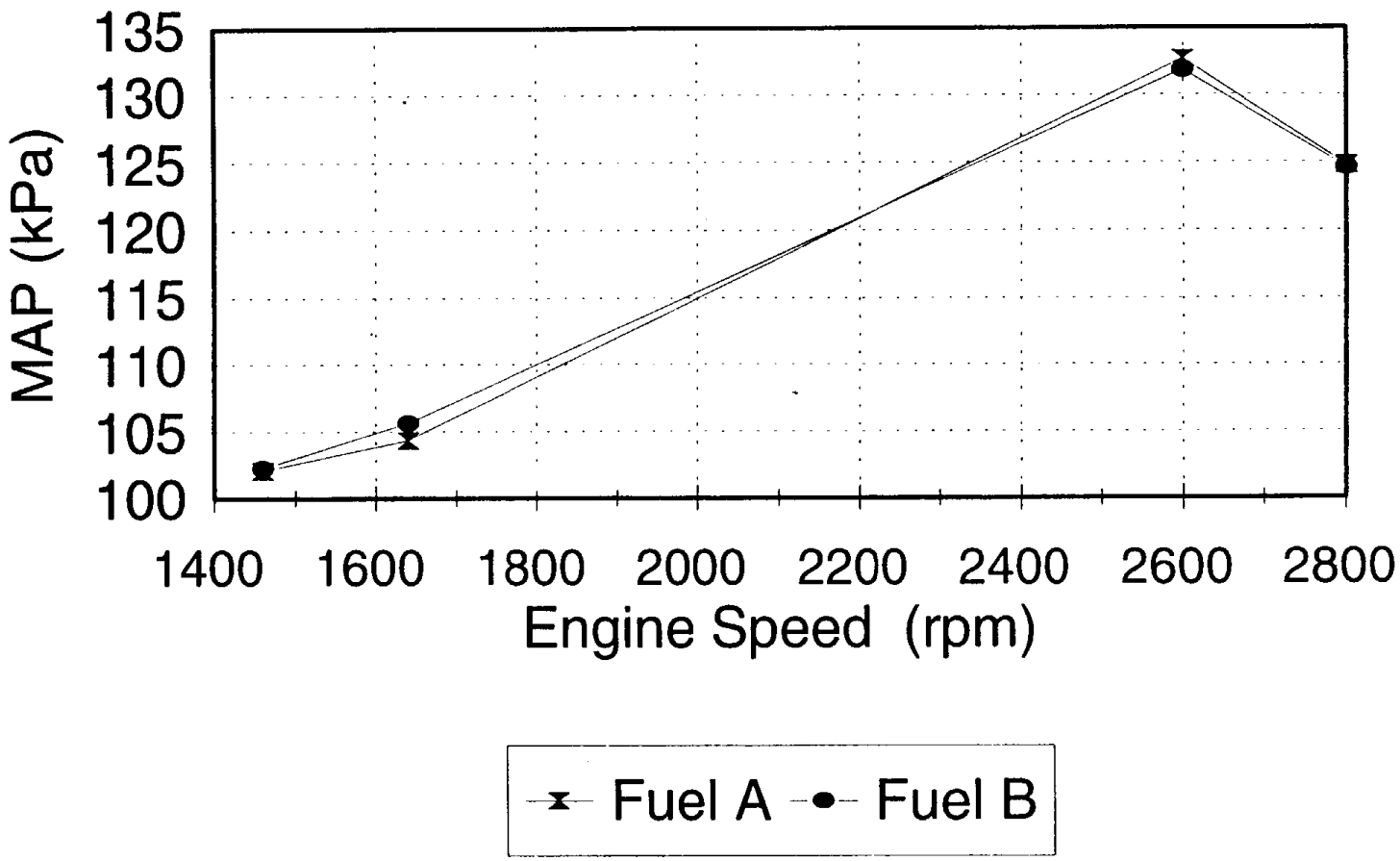
50% Load




BTE vs. Speed
50% Load
Brake Thermal Efficiency (%)
32
30
28
26
24
1400
1600
1800
2000
2200
2400
2600
2800
Engine Speed (rpm)
Fuel A
Fuel B

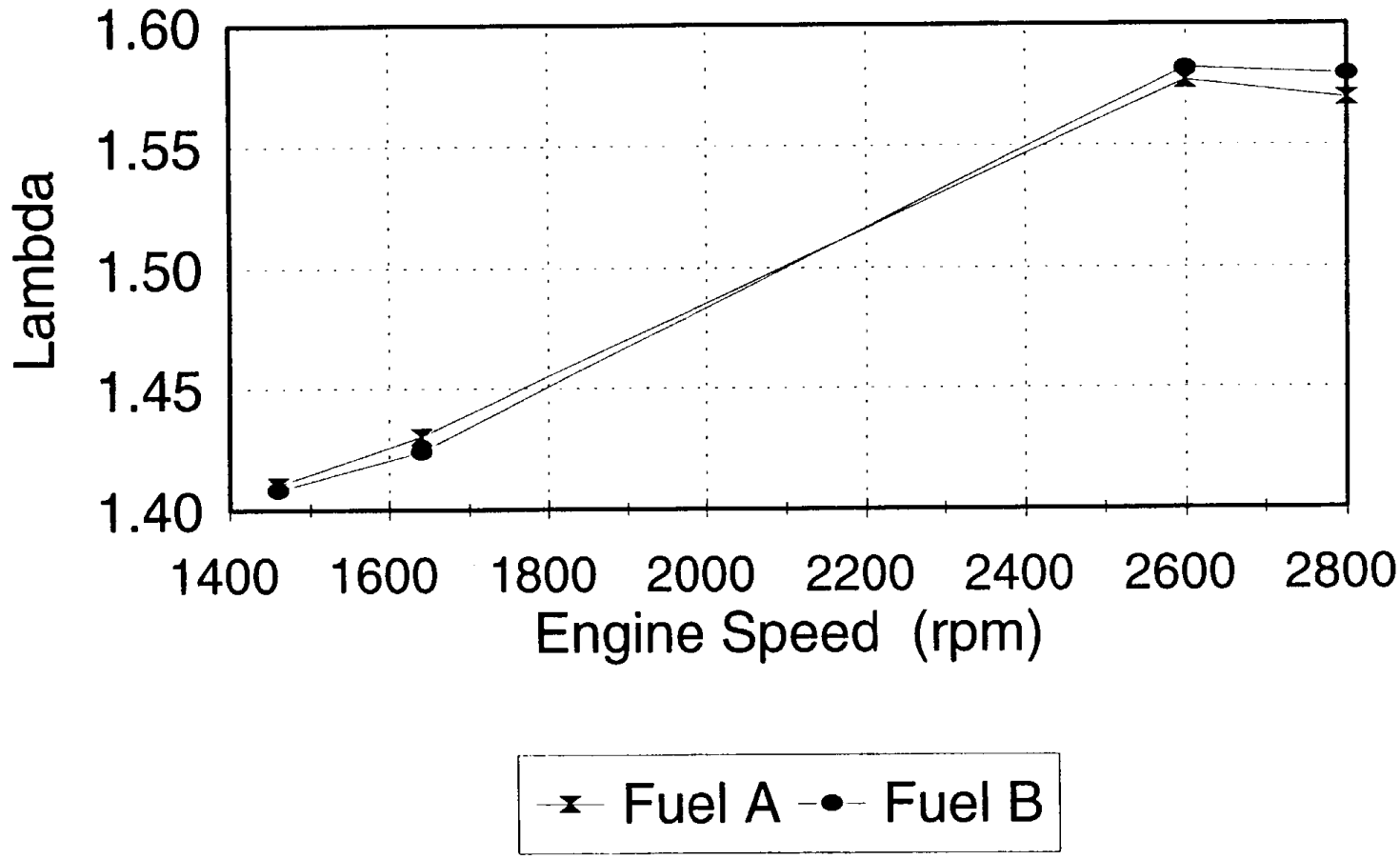
MAP vs. Speed

50% Load



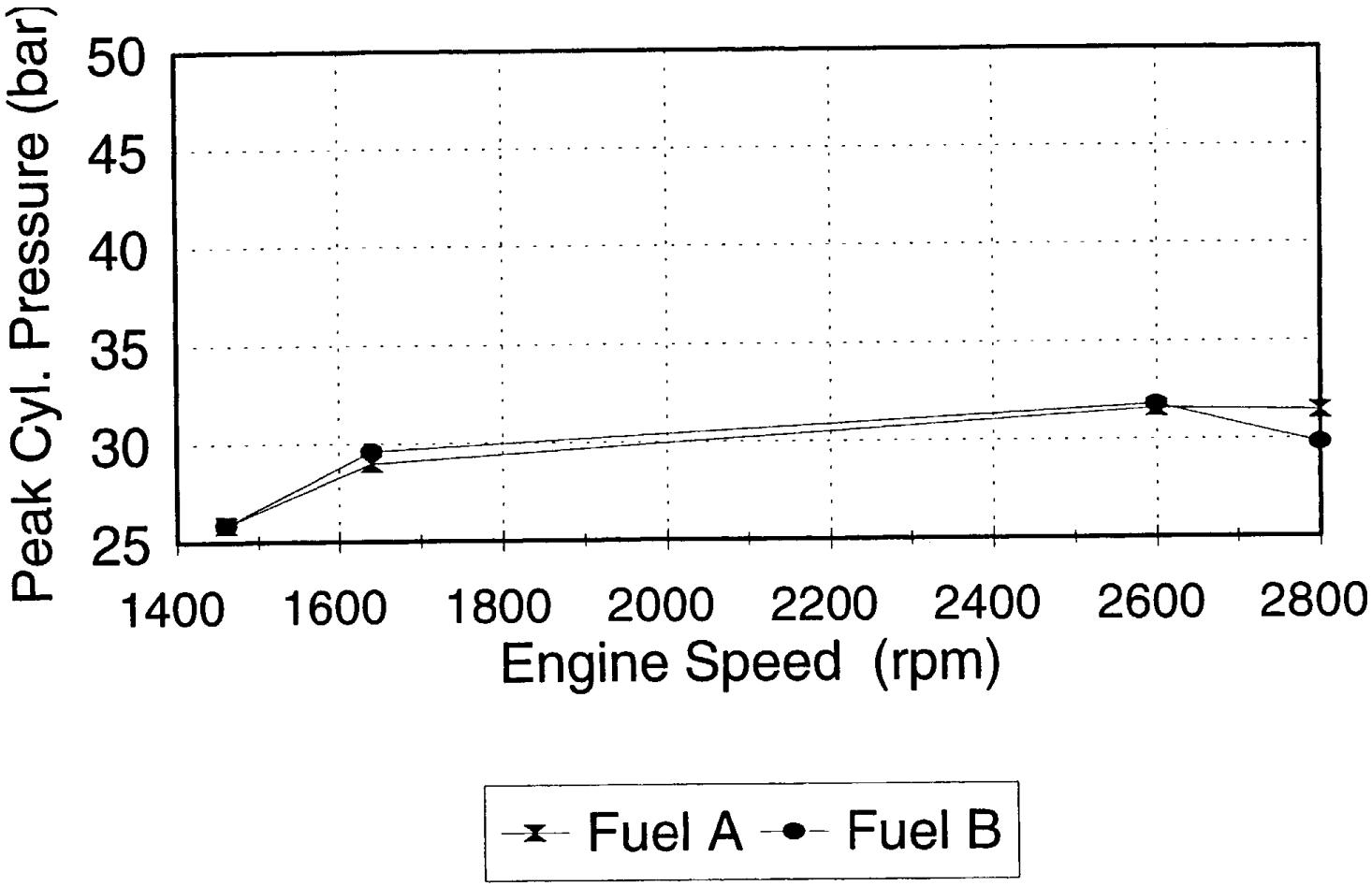
Lambda vs. Speed

50% Load



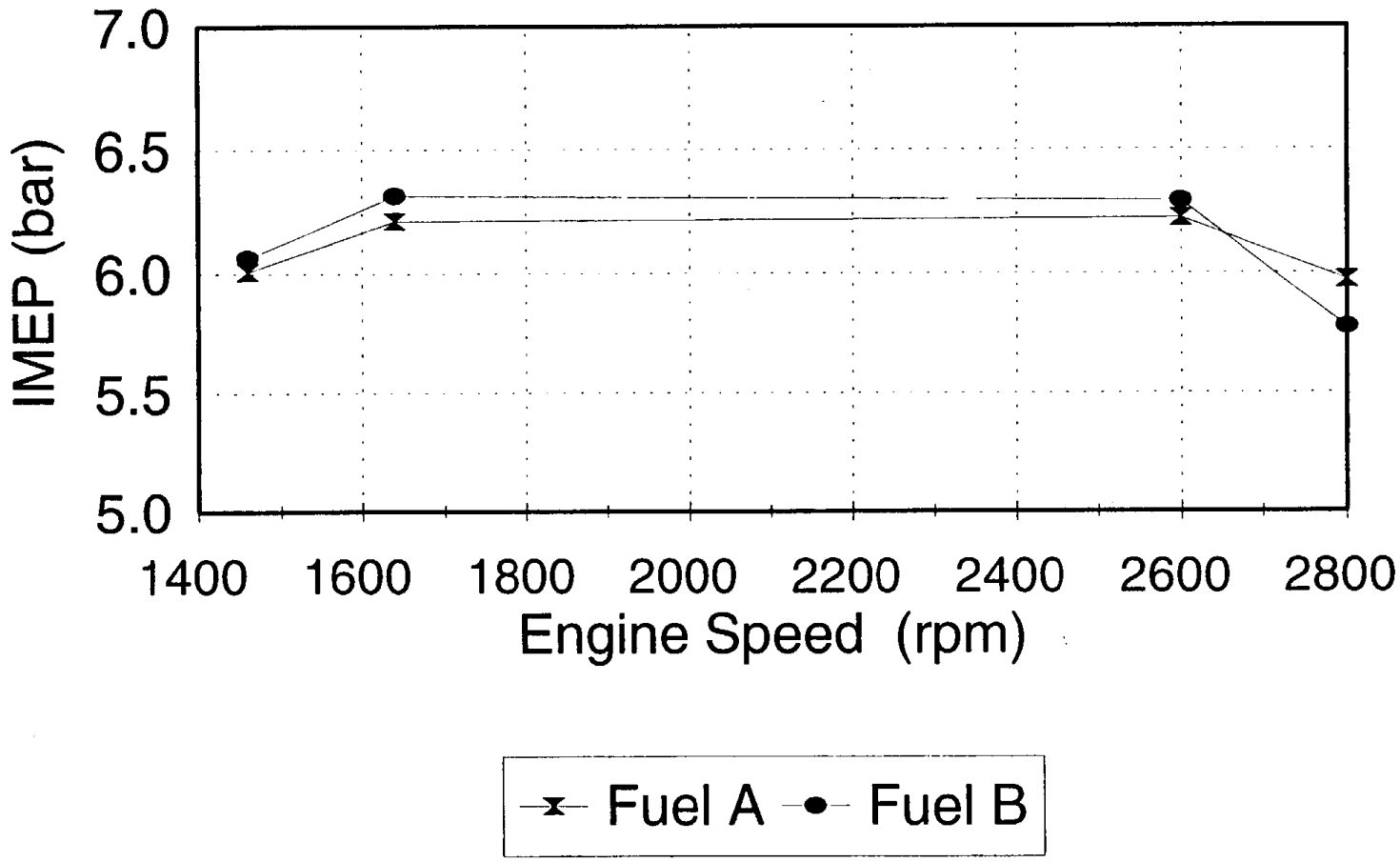
Peak Cyl Pressure vs. Speed

50% Load



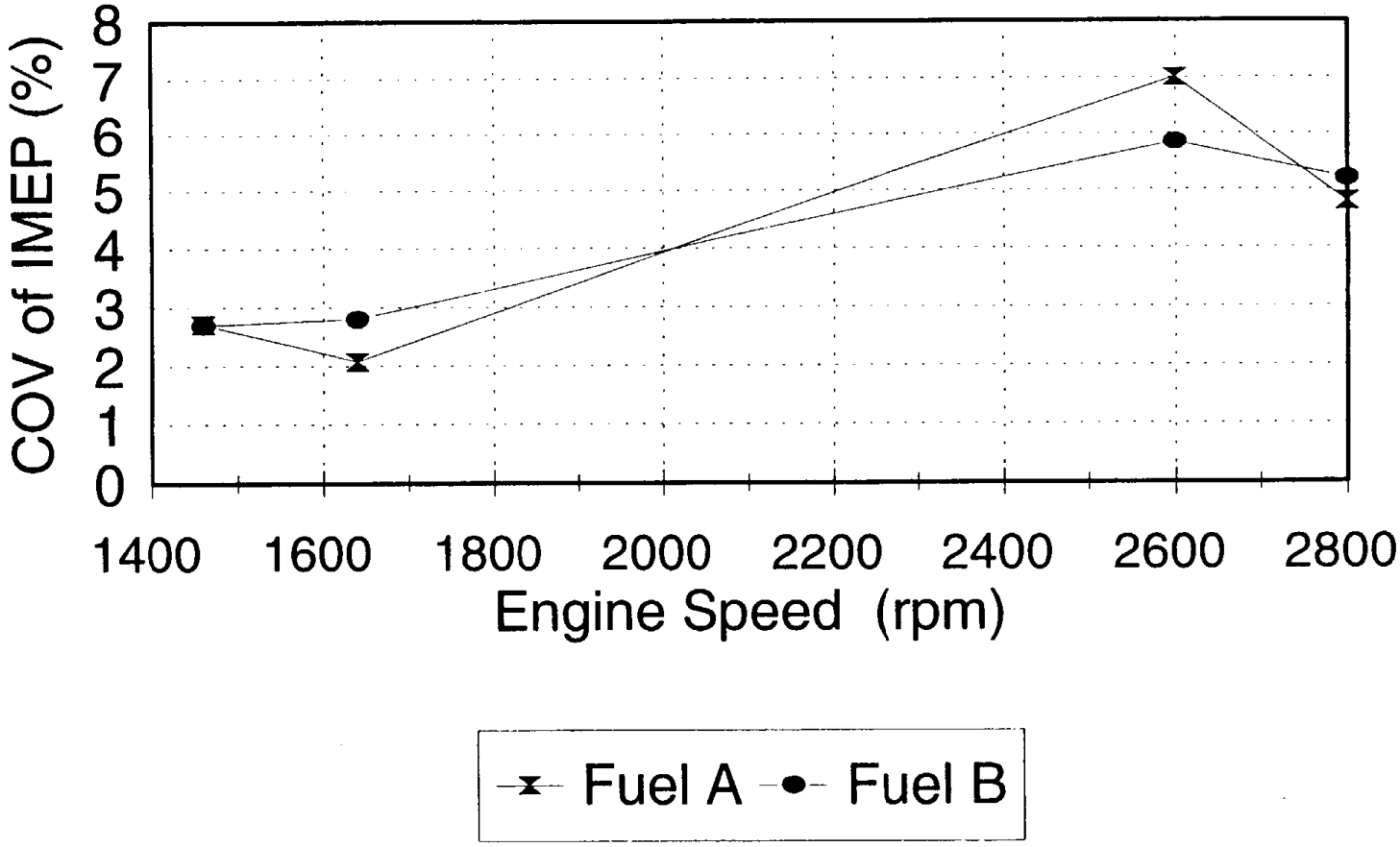
IMEP vs. Speed

50% Load



COV of IMEP vs. Speed

50% Load

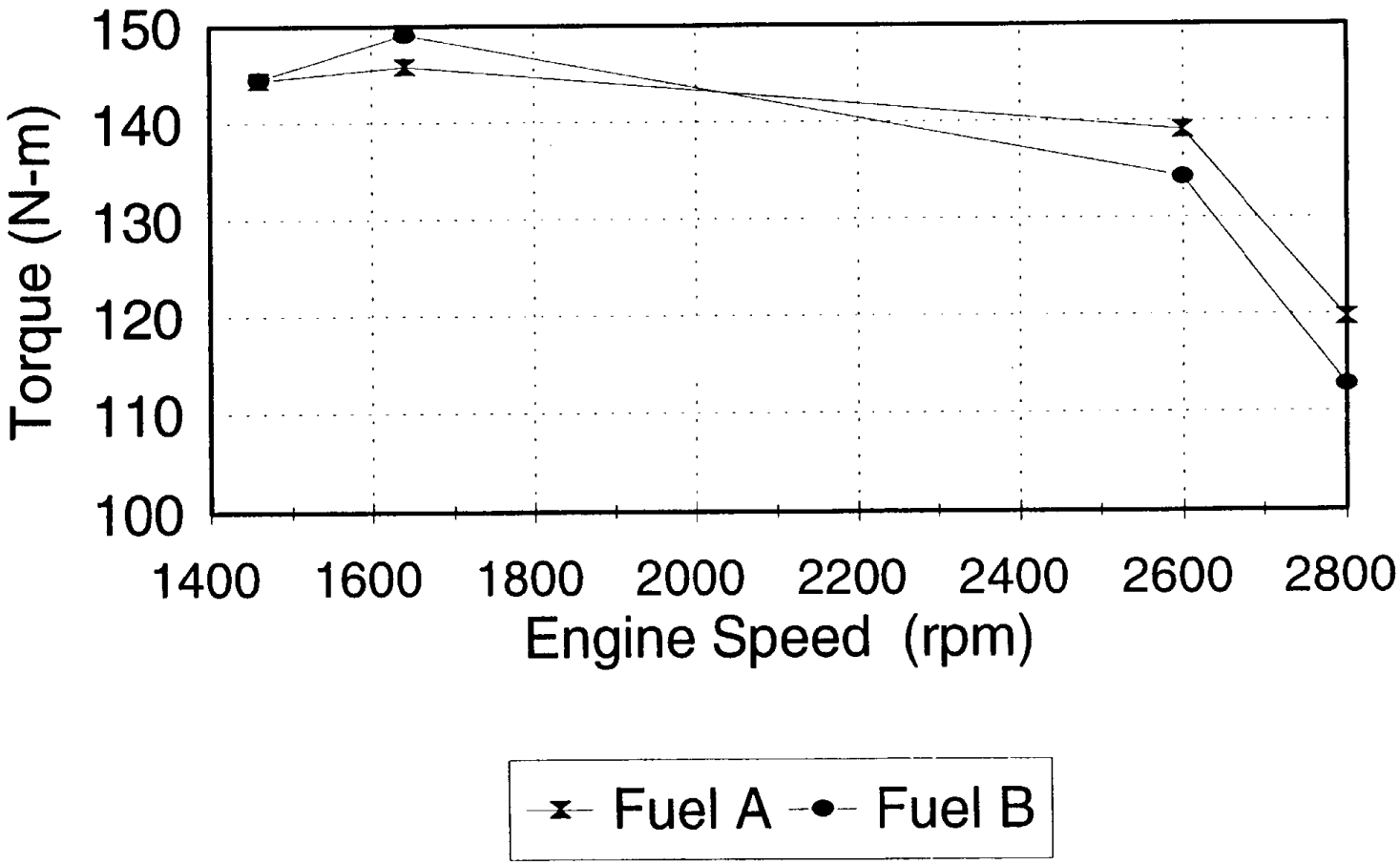


APPENDIX F-4

25 PERCENT LOAD COMPARISON PLOTS

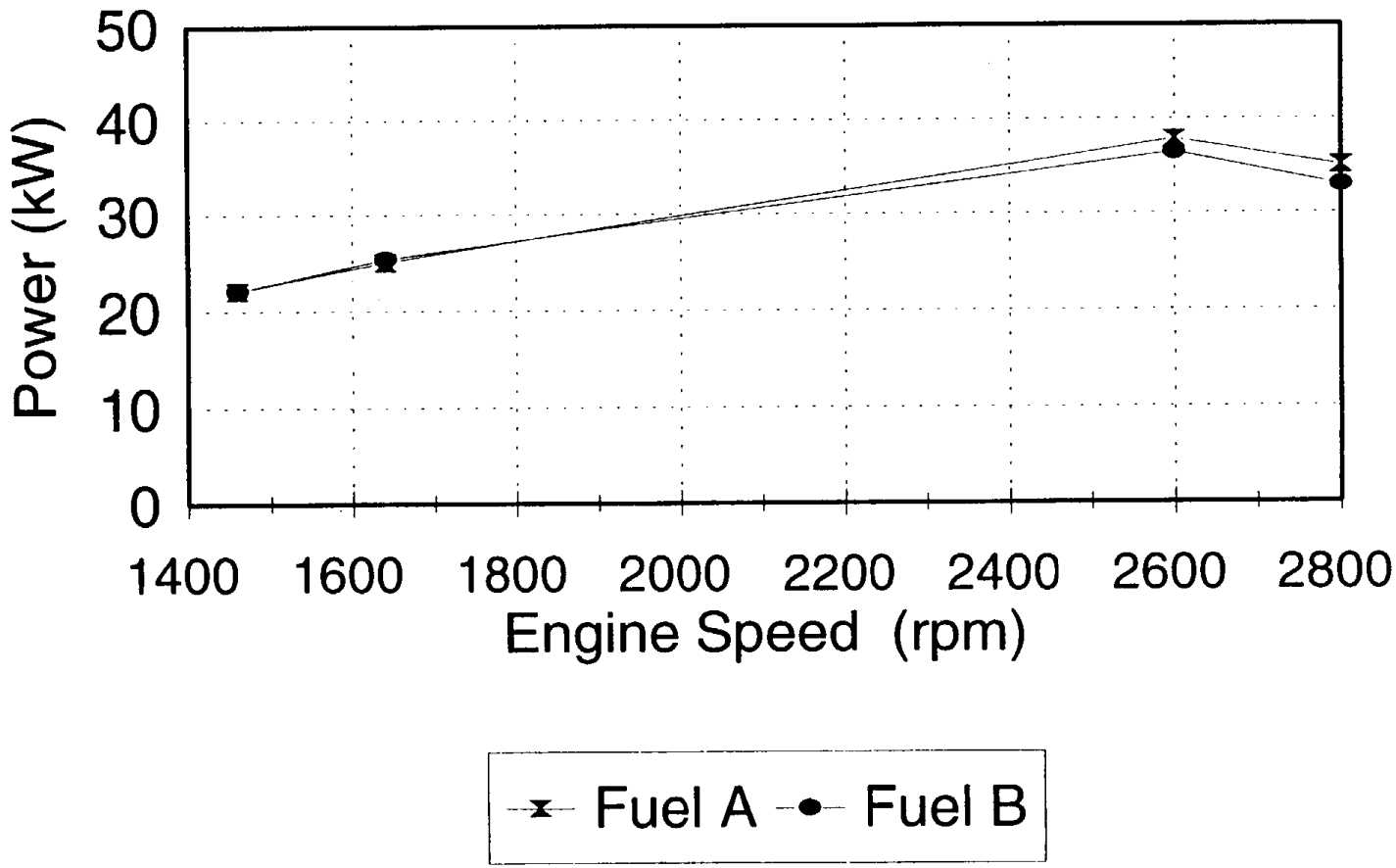
Torque vs. Speed

25% Load



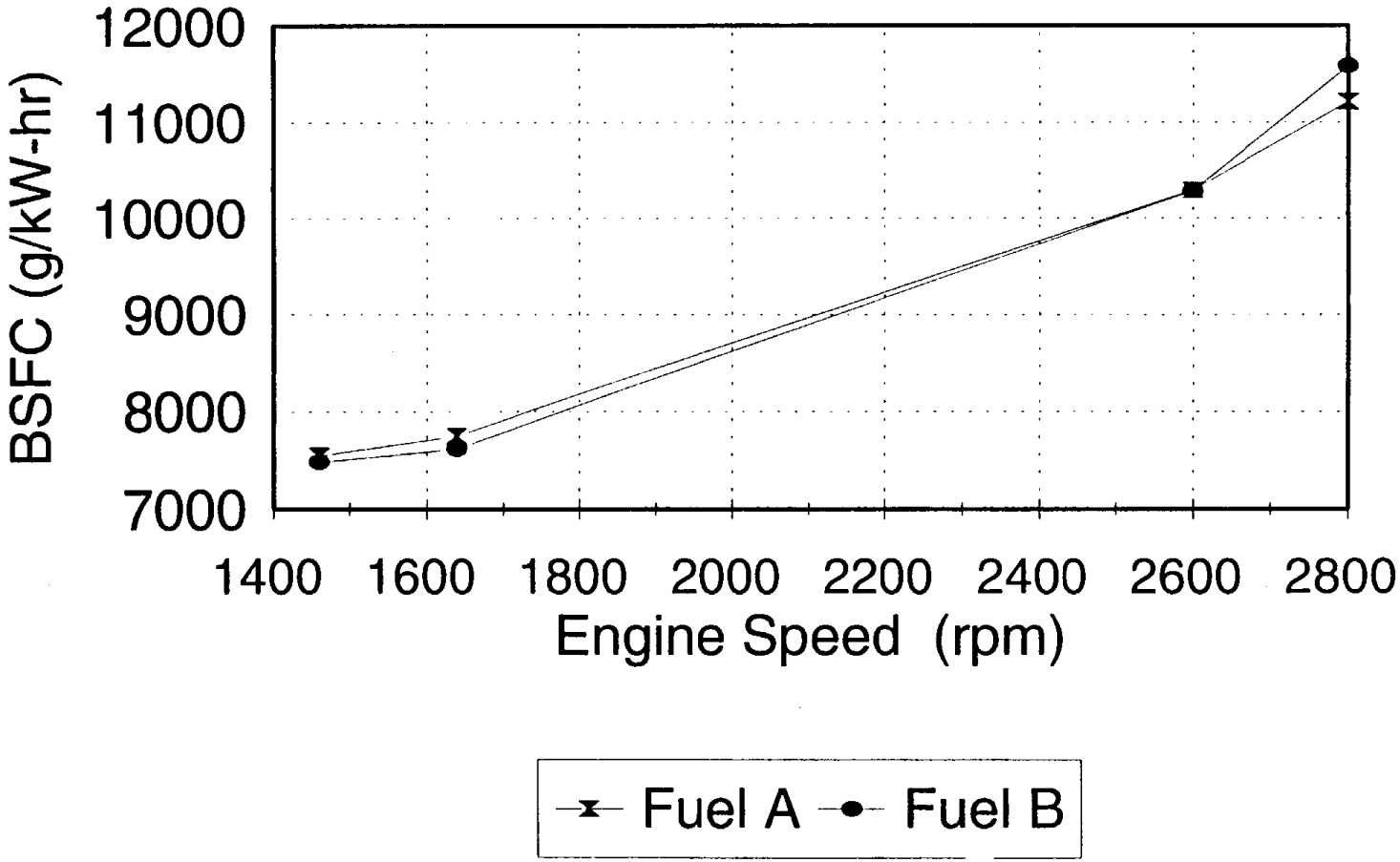
Power vs. Speed

25% Load



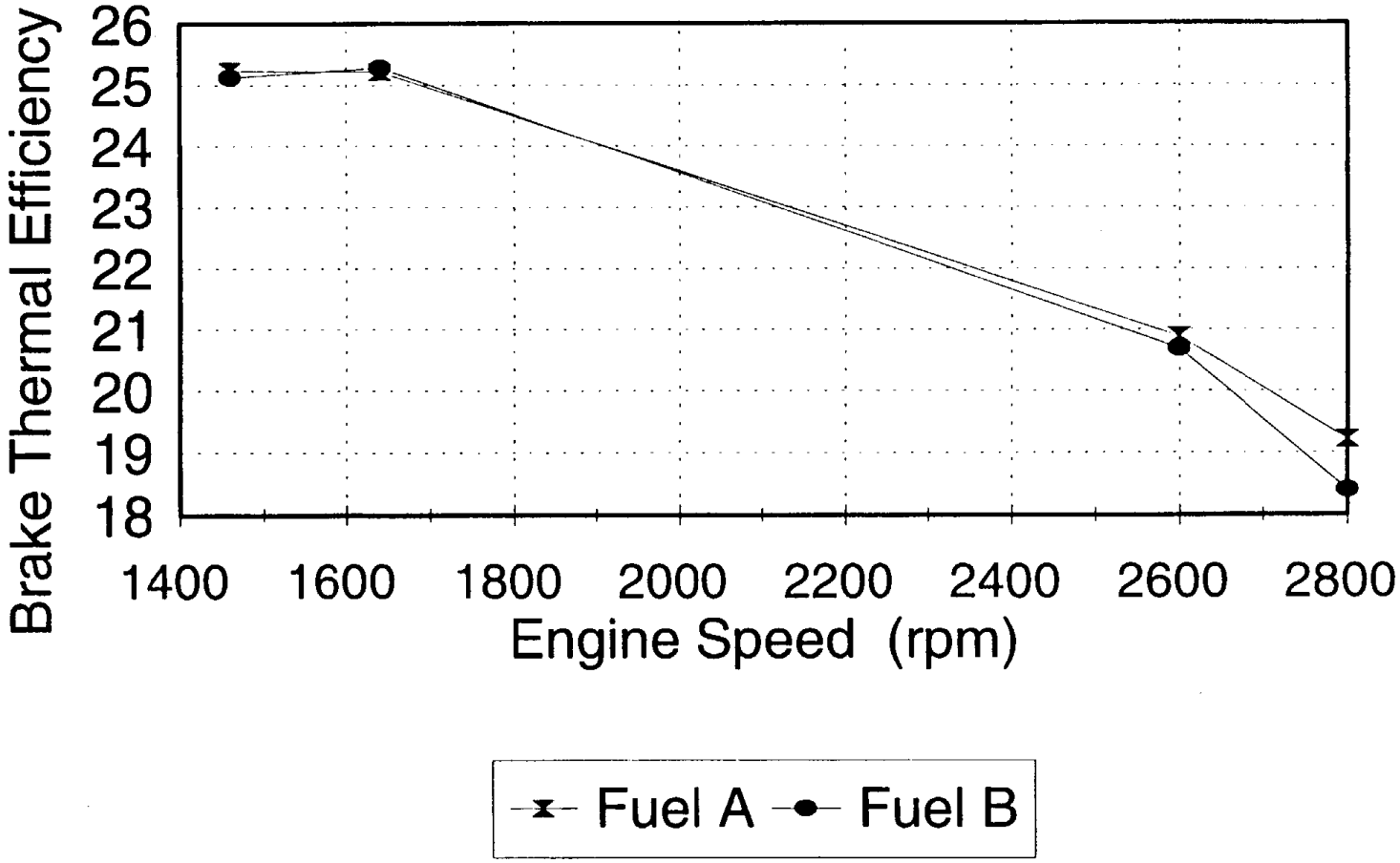
BSFC vs. Speed

25% Load



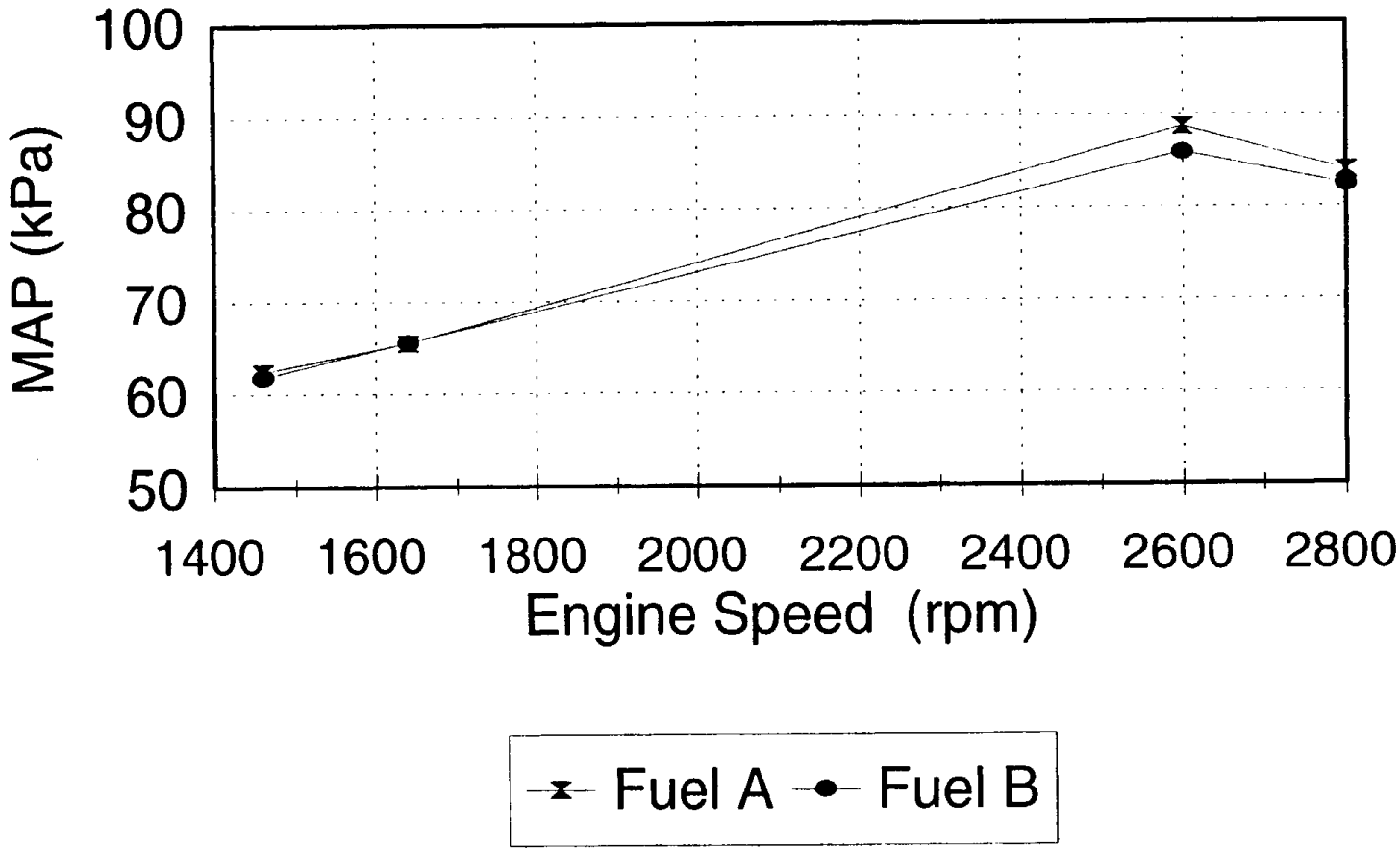
BTE vs. Speed

25% Load



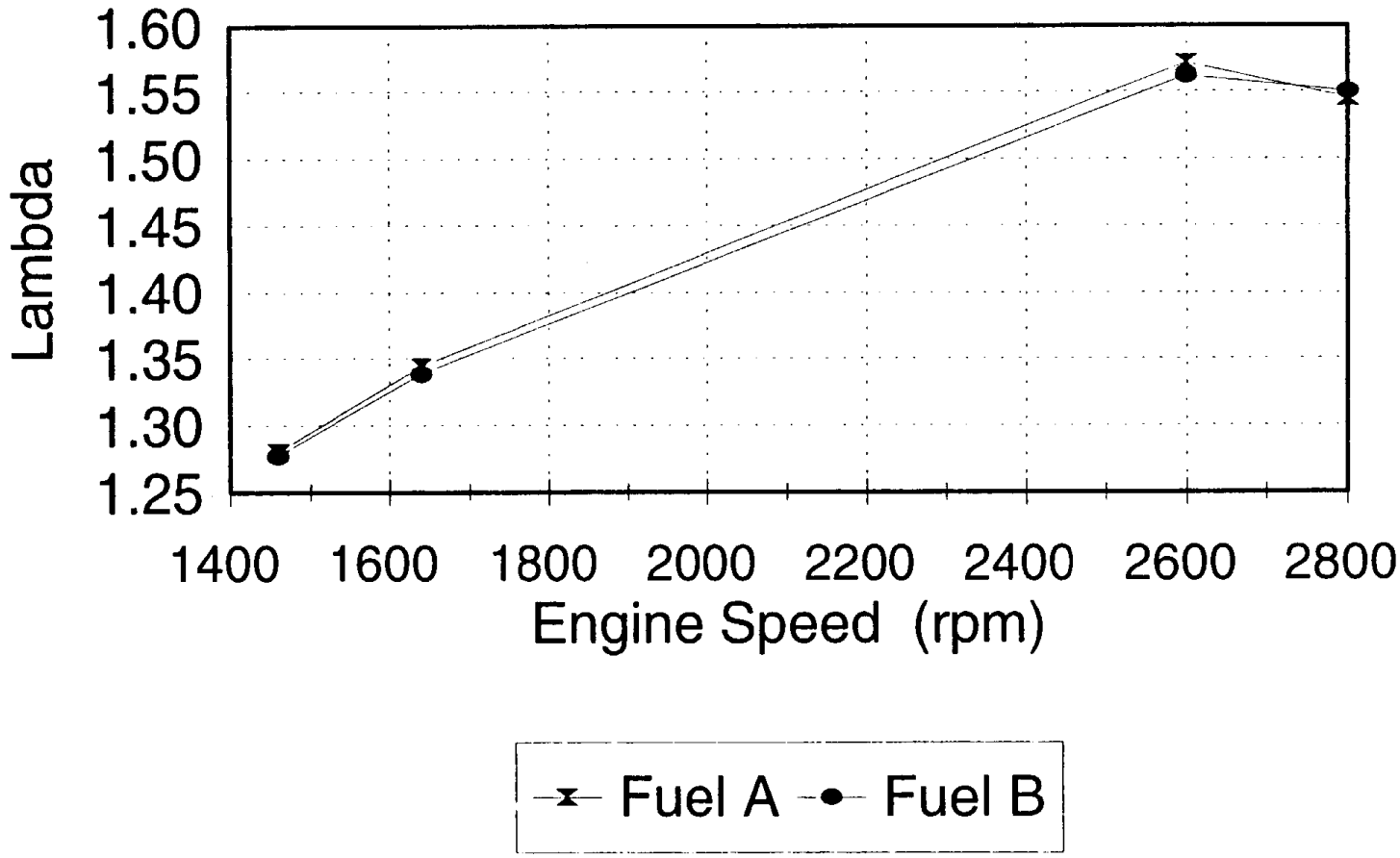
MAP vs. Speed

25% Load



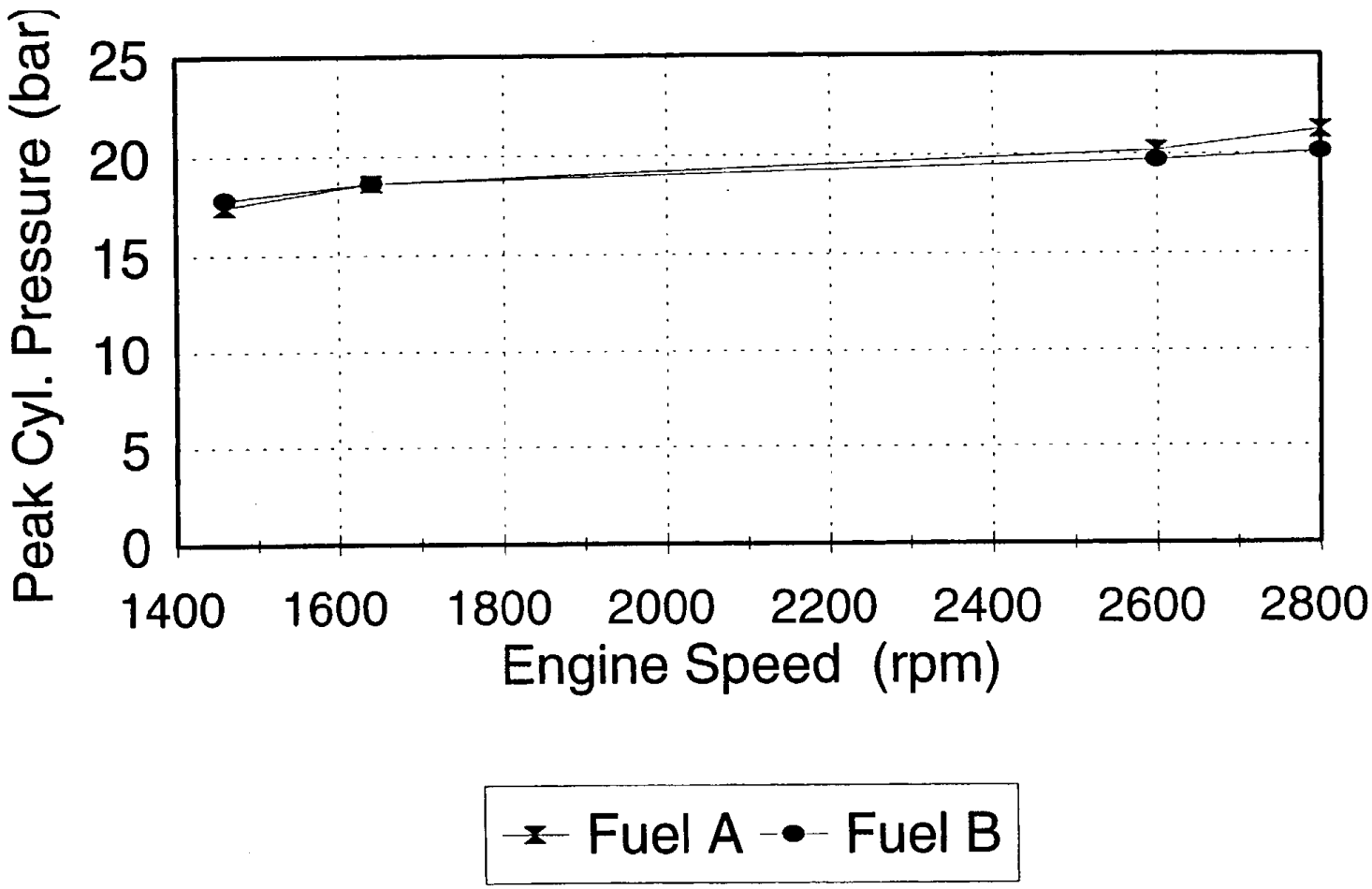
Lambda vs. Speed

25% Load



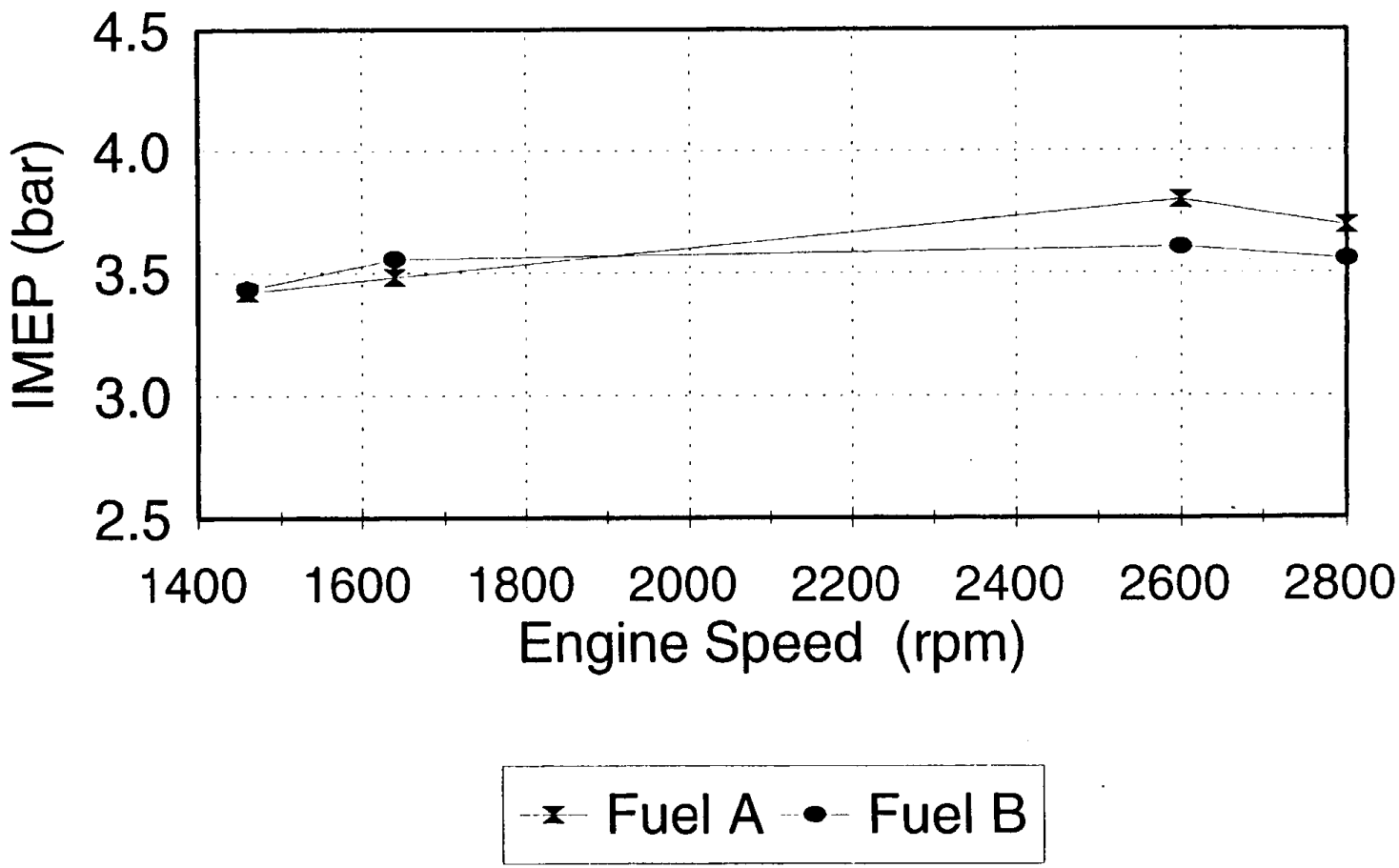
Peak Cyl Pressure vs. Speed

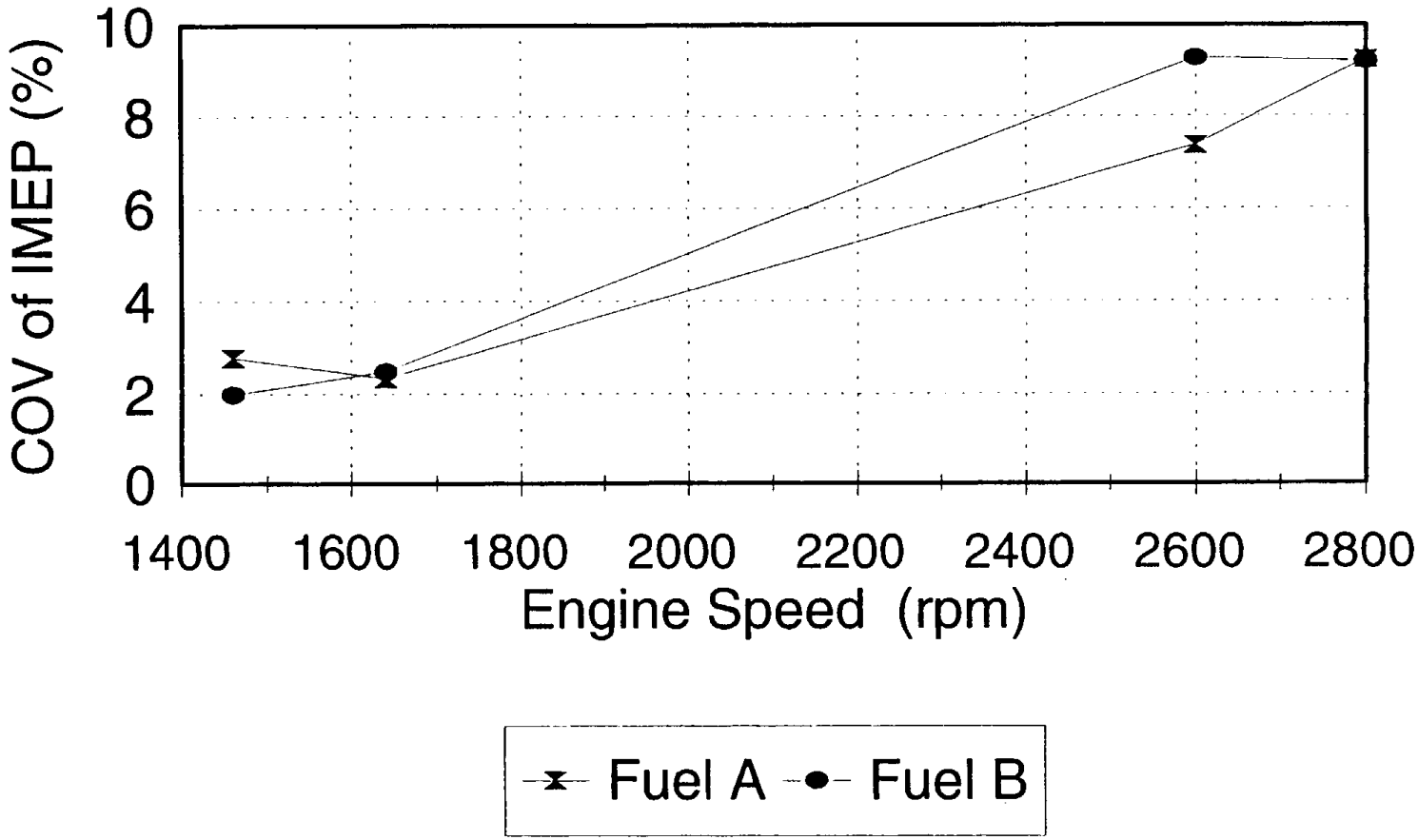
25% Load



IMEP vs. Speed

25% Load



COV of IMEP vs. Speed

25% Load