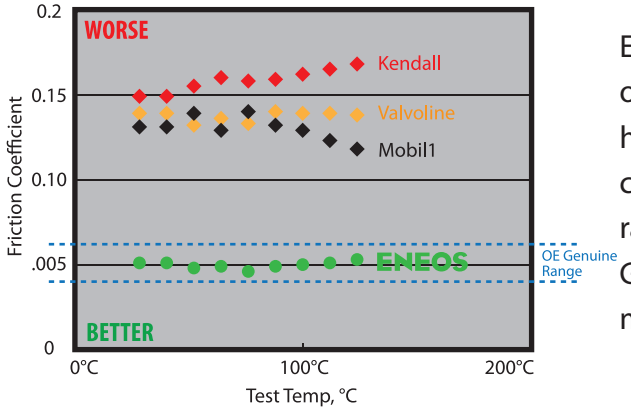
SRV Friction & Wear Test of Automotive Components

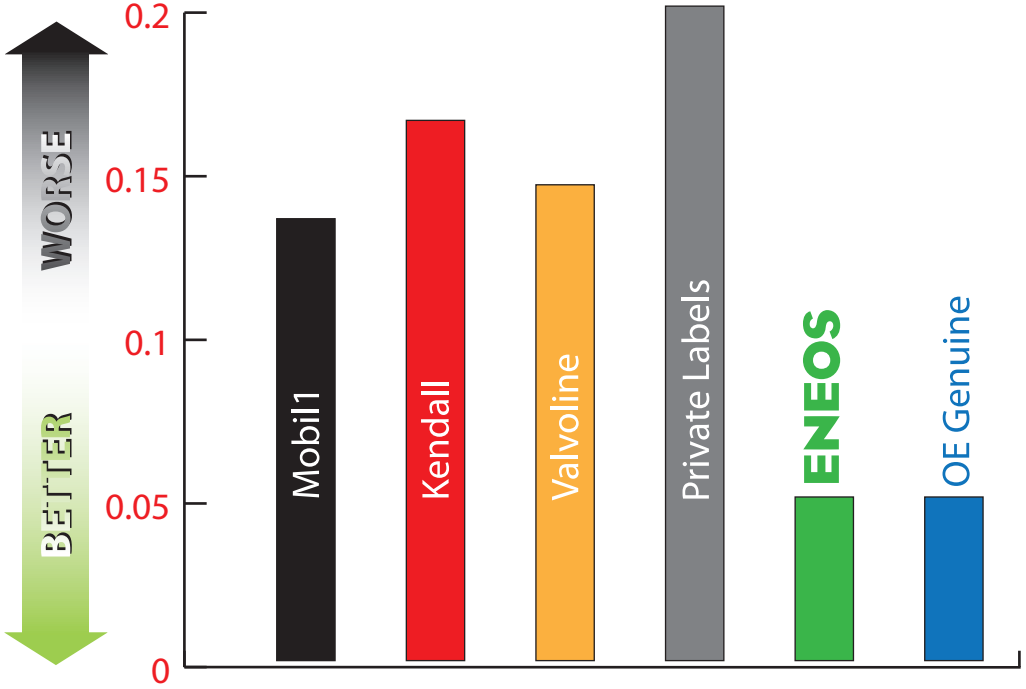
0W-20 Motor Oil Test Result:

Temp (°C)	Mobil1	Kendall	Valvoline	ENEOS
40°C	0.137298	0.147942	0.140025	0.052926
50°C	0.137339	0.147942	0.140017	0.052934
60°C	0.145421	0.154000	0.142314	0.047917
70°C	0.134986	0.163579	0.144729	0.049809
80°C	0.146207	0.158719	0.144587	0.045893
90°C	0.141917	0.162190	0.146025	0.049074
100°C	0.135033	0.165091	0.145405	0.051331
110°C	0.126504	0.167810	0.145554	0.053579
120°C	0.118388	0.169388	0.144000	0.054107



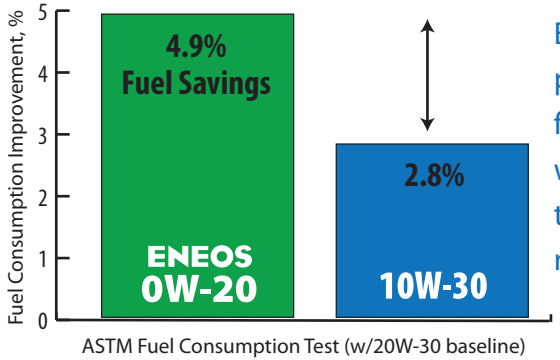
ENEOS is the only oil tested that had a friction coefficient in the range of OE Genuine 0W-20 motor oil.

Friction Coefficient of 0W-20 Oil @ 100°C



Lower friction coefficient translates into reduced wear on engine components and better fuel efficiency

Fuel efficiency test on 0W-20



ENEOS 0W-20 provides better fuel efficiency when compared to conventional motor oil.

Test Description:
SRV Oscillation Friction & Wear Test is a standard method used in testing effective of oil and additives in oil with respect to coefficient of friction, wear and fretting corrosion (tribocorrosion).

Default test consist of 2 hours oscillating of a ball on a disk with 300 N force. Approximately 2 to 3 drops of the test oil are spread between the 2 contacting surface.

A recorder plots a coefficient of friction diagram of the friction parameters throughout the test. By analyzing coefficient of friction profile along with other optical measurements, the lubricant can be assessed for its anti-wear and fuel efficiency characteristics.