

| Oil | | density at 15°C | Viscosity 40°C mm ² /s | Viscosity 100°C mm ² /s | viscosity index |
|---------------------------------|----------------|-----------------|-----------------------------------|------------------------------------|-----------------|
| GRO Extrem 75W | synthetic | 0.91 | 20 | 5.2 | 212 |
| Nils Clutch Trial | synthetic | | 24.7 | 7.5 | 302 |
| Maxima MTL 75Wt -XL | | 0.86 | 31.63 | 5.54 | 125 |
| Mohican Chief ATF III | synthetic | 0.86 | 33.3 | 7.1 | 204 |
| Nulon ATF III synth prem | synthetic | 0.8514 | 33.4 | 7 | 179 |
| Putoline GP10 | | 0.877 | 33.5 | 5.5 | 98 |
| Nulon ATF III semi | semi-synth | 0.861 | 33.8 | 7 | 175 |
| Shell Spirax S3 ATF MD3 | | 0.864 | 33.8 | 7.3 | 175 |
| Putoline Nano Trans | | 0.842 | 34.7 | 7 | 168 |
| Castrol Transmax multivehicle | synthetic | 0.848 | 35 | 7.1 | 170 |
| Putoline ATF Dexron III | | 0.865 | 35.3 | 7.7 | 193 |
| Putoline Light Gear | | 0.87 | 36 | 5.84 | 98 |
| Castrol ATF III | | 0.855 | 36 | 7.2 | 172 |
| Penrite ATF Dexron III | Full Synthetic | 0.848 | 38 | 7.9 | 189 |
| IPONE Dextron 2R | Mineral | 0.857 | 39.5 | 7.9 | 176 |
| Nulon ATF III | mineral | 0.854 | 40.28 | 7.52 | 156 |
| Motul 75W-80 | | 0.878 | 58.8 | 10.1 | 160 |
| Motul 300V 5W30 4T Factory Line | 100% syn | 0.855 | 63.38 | 11.41 | 178 |
| Maxima MTL 80Wt -R | | 0.86 | 63.45 | 8.57 | 125 |
| Penrite 75W-85 Gear Oil | | 0.873 | 77 | 12 | 152 |
| Silkolene 75W | | 0.883 | 79.7 | 14.34 | 188 |
| Rock Oil Lite Gear Oil | | 0.877 | 86 | 12 | 133 |
| Ipone Box X-Trem - gear oil | Full Synthetic | 0.854 | 88.2 | 14.2 | 168 |
| Maxima MTL 85Wt -E | | 0.86 | 89.29 | 10.66 | 135 |
| Ipone Box2 Synthetic Plus | synthetic | 0.87 | 93.8 | 14 | 153 |
| Rock Oil GRO Racing Gear Oil | synthetic | 0.873 | 96.5 | 14 | 148 |
| Penrite 10W-40 | Full Synthetic | 0.865 | 97 | 15.1 | 165 |
| Nils Clutch | | 0.89 | 104 | 14 | 137 |

From: <https://www.machinerylubrication.com/Read/28956/lubricant-viscosity-index>

The higher the VI, the more stable the viscosity across a range of temperatures (more desirable). The temperatures used to determine the VI are 40 degrees C to 100 degrees C.

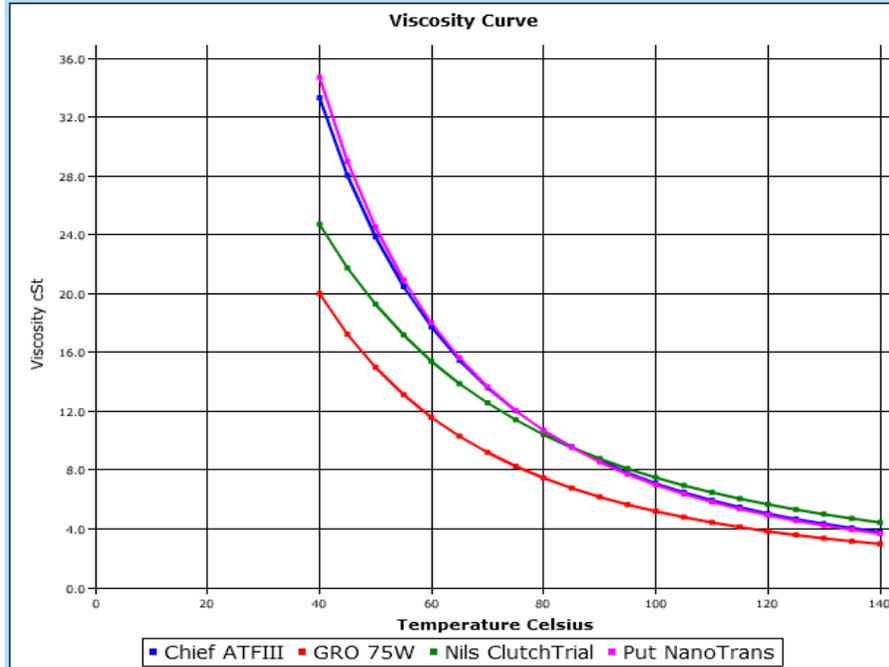
For machines of constant load, constant speed and constant ambient temperatures, the ideal viscosity very often results in the lowest stabilized oil temperature. Oils of lower or higher viscosities (than the optimum viscosity) will typically increase the oil's stabilized temperature due to either churning losses (too much viscosity) or mechanical friction (too little viscosity).

If conditions are not constant (variable loads, variable speeds, variable ambient temperatures, etc.), then there is a need for not only the optimum viscosity but also a high viscosity index to stabilize the optimum viscosity. The more variable the conditions, the greater the need for high VI oils.

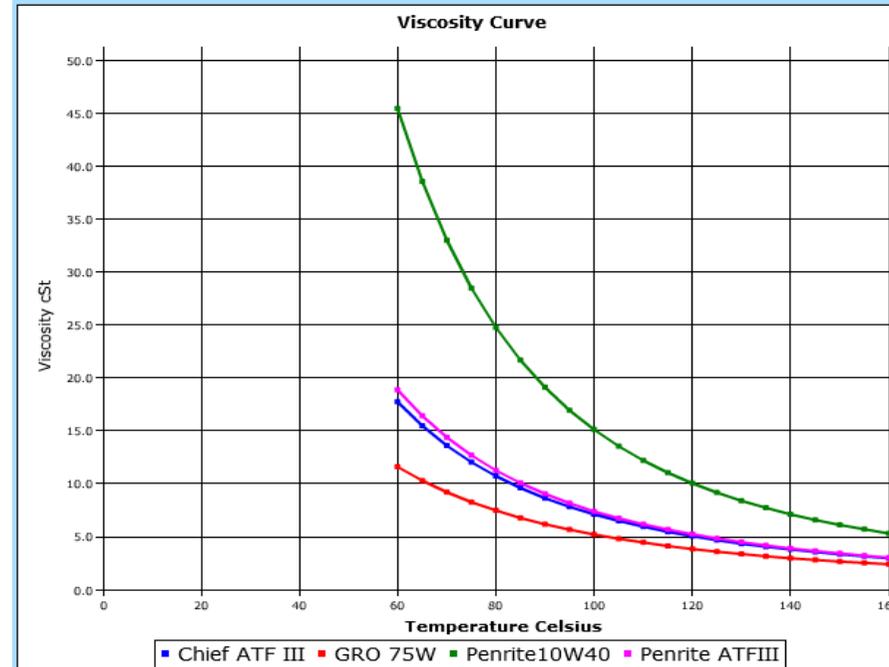
Graph below generated from this website:
<http://www.widman.biz/English/Calculators/Graph.html>

| Product Name | Oil 1 | Oil 2 | Oil 3 | Oil 4 | Temperature |
|------------------------|--------------|---------|----------------|--------------|-------------------|
| | Chief ATFIII | GRO 75W | Nils ClutchTri | Put NanoTran | Minimum (Celsius) |
| Viscosity cSt at 40°C | 33.3 | 20.0 | 24.7 | 34.7 | 40 |
| Viscosity cSt at 100°C | 7.1 | 5.2 | 7.5 | 7.0 | |

| Product Name | Oil 1 | Oil 2 | Oil 3 | Oil 4 | Temperature |
|------------------------|---------------|---------|--------------|----------------|-------------------|
| | Chief ATF III | GRO 75W | Penrite10W40 | Penrite ATFIII | Minimum (Celsius) |
| Viscosity cSt at 40°C | 33.3 | 20.0 | 97.0 | 36.0 | 60 |
| Viscosity cSt at 100°C | 7.1 | 5.2 | 15.1 | 7.4 | |



| Temperature | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 95 |
|----------------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| Chief ATFIII | 33.3 | 28.0 | 23.8 | 20.5 | 17.7 | 15.5 | 13.6 | 12.0 | 10.7 | 9.6 | 8.6 | 7.8 |
| GRO 75W | 20.0 | 17.2 | 15.0 | 13.1 | 11.6 | 10.3 | 9.2 | 8.3 | 7.5 | 6.8 | 6.2 | 5.7 |
| Nils ClutchTri | 24.7 | 21.8 | 19.3 | 17.2 | 15.4 | 13.9 | 12.6 | 11.4 | 10.4 | 9.5 | 8.8 | 8.1 |
| Put NanoTrans | 34.7 | 29.0 | 24.5 | 20.9 | 18.0 | 15.6 | 13.7 | 12.0 | 10.7 | 9.5 | 8.6 | 7.7 |



| Temperature | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Chief ATF III | 17.7 | 15.5 | 13.6 | 12.0 | 10.7 | 9.6 | 8.6 | 7.8 | 7.1 | 6.5 | 5.9 | 5.5 |
| GRO 75W | 11.6 | 10.3 | 9.2 | 8.3 | 7.5 | 6.8 | 6.2 | 5.7 | 5.2 | 4.8 | 4.4 | 4.1 |
| Penrite10W40 | 45.4 | 38.5 | 33.0 | 28.5 | 24.7 | 21.7 | 19.1 | 16.9 | 15.1 | 13.5 | 12.2 | 11.0 |
| Penrite ATFIII | 18.9 | 16.4 | 14.4 | 12.7 | 11.3 | 10.1 | 9.0 | 8.2 | 7.4 | 6.7 | 6.2 | 5.7 |