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Base oil N-220 (Group II)

Group II are hydro-cracked base oils. They are produced by undergoing hydro-processing which increases the level of saturates and purges out impurities. They have fair to good performance in lubricating properties such as volatility, oxidative stability and flash/fire points. They have only fair performance in areas such as pour point, cold crank viscosity and extreme pressure wear. They are defined as having a viscosity index between 80 and 120 while having a level of sulphur lower than 0.03% and are less polar with values less than 10 pS/m very low conductivity

Applications

- 1) Transformer oil, ink oil
- 2) Marine oil
- 3) Industrial gear oil
- 4) Automatic transmission fluid
- 5) White oil, process oil
- 6) Gear oil, Axle oil

| Parameter | Unit | Test Method | Value |
|------------------------------|--------|-----------------|------------------|
| Color | - | ASTM D 1500 | L 0.5 Max |
| Density at 15°C | (kg/L) | ASTMD 4052 | 0.82-0.88 |
| Kinematic Viscosity at 100°C | (cSt) | ASTMD 445 | 10-12 |
| Kinematic Viscosity at 40°C | (cSt) | ASTMD 445 | 6.0-7.5 |
| Viscosity Index | - | ASTM D2270 | 100 Min |
| Pour Point | (°C) | ASTM D 5949 | -15 |
| Flash Point | (°C) | ASTM D 92 | 220 Min |
| Water Content | PPM | ASTM D 6304-142 | <50 |
| Sulphur | Wt% | ASTMD 5453 | 0.001 Max |
| Saturates | Wt% | ASTM D 7419 | 99.9 Min |
| Aromatics | Wt% | ASTM D 7419 | 1 Max |
| Appearance | Visual | ... | Clear and Bright |
| Noack Volatility | Wt % | ASTM D 5800 | 10,6 |

Advantages

- 1) Better oxidation control and Improved NOACK stability
- 2) Enhanced viscosity control and Better base number retention
- 3) Priced very close to Group I oils
- 4) Reduces wear on engine components
- 5) Results in an extended range before changing lubricants

Accredited: ISO9001:2015 | ISO 14001:2015 | ISO45001:2018