

John Deere first developed Hy-Gard™ oil for its own equipment in 1973, and it quickly became the industry standard.

Since then it has been tested, improved and upgraded several times to improve performance. What does this mean for you? Below are the answers to questions you may have about Hy-Gard™ and your operation.

How does Hy-Gard™ protect my John Deere machine?

Transmission and hydraulic oils must perform many different tasks at the same time. Hy-Gard™ oils are formulated to provide the following protection:

- Prevents wear on high torque heavy-loaded gears and bearings
- Prevents wear and corrosion in hydraulic pumps
- Prevents final drive wear due to anti-wear additives for gears
- Provides proper friction for wet brakes and clutches, reducing slippage, wear and chatter.

How does Hy-Gard™ compare to other hydraulic oils?

- Hy-Gard™ is a unique oil developed by John Deere engineers to meet the exact needs of John Deere machines and undergoes rigorous testing to meet the high performance standards set by John Deere for their oils.
- Because there is no industry classification for hydraulic/transmission oils each manufacturer establishes a minimum requirement that oils should meet for use in their equipment.
- John Deere has established a JDM J20 specification for minimum tractor performance hydraulic fluid. Hy-Gard™ not only meets the requirements for JDM J20 but exceeds it. It is possible that competitive oils do not meet even the minimum performance requirements for John Deere machines.

Can Hy-Gard™ be used in non-John Deere equipment?

Hy-Gard™ was designed for use in John Deere equipment; however it can also be used in many non-John Deere transmission and hydraulic systems. Hy-Gard™ is suitable for:

- Transmissions and differential units with immersed wet brakes
- Gearboxes with hydraulic brakes
- Gearboxes with hydraulic drive systems.

What viscosity grade is Hy-Gard™?

Hy-Gard™ is a multi-viscosity fluid with a high viscosity index. Hy-Gard™ viscosity places it between ISO 46 and 68 grades and may be used in many applications specifying either of these viscosity grades.

Does Hy-Gard™ maintain performance at different operating temperatures?

A polymer viscosity improver helps Hy-Gard™ retain its proper viscosity over a wide range of operating temperatures. For Hy-Gard™ to work efficiently it must flow readily through any part of the system. Oil that is too light can cause increased wear; too heavy will cause sluggish operation and lower mechanical efficiency.

Hy-Gard™ (10W-30) Australia

| Size | Part Number |
|-------|-------------|
| 5L | CP1565 |
| 20L | CP1566 |
| 205L | CP1567 |
| 1000L | CP2103 |

Hy-Gard™ (10W-30) New Zealand

| Size | Part Number |
|------|-------------|
| 5L | CP1565NZ |
| 20L | CP1566NZ |
| 205L | CP1567NZ |

Physical Properties

| Test Parameters | 10W-30 |
|-------------------------|-------------|
| Viscosity 40°C | 60 cSt |
| Viscosity 100°C | 9.4 cSt min |
| Viscosity Index | 150 |
| ISO Viscosity | 46 - 68 |
| Specific gravity 20/20° | 0.89 |
| Flash Point | 220°C |

Service Ratings

| Major diesel engine manufacturers' requirements | |
|---|---|
| AGCO Massey Ferguson | M1135, M-1141, M-1139 |
| AGCO White Farm | Q-1722, Q-1766, Q-1766B Q-1802, Q-1826 |
| Allis-Chalmers, Deutz-Allis, AGCO Allis | 821XL |
| Case | MS-1207, MS-1210 |
| Caterpillar | TO-2 |
| Clark | MS-68 |
| Deutz | Hyd. Trans. Fluid |
| Dresser | Transmission Hyd. Fluid (HMS B806-0002) |
| Eaton Hyd | Hyd. Trans. (Form3-0401-123) |
| Ford/New Holland | ESN-M2C41B, M2C134D, M2C48B, M2C48C |
| IHC | B-6 |
| ISO | 46-68 |
| Kubota | UDT Hyd. Trans. Fluid |
| Oliver | Type 55 |
| Sunstrand | Hydrostatic transmission |
| Zetor | OT-H, GL-4 |

Ask your dealer about how Hy-Gard™ can improve your operation today!

*An industry classification for hydraulic – transmission oil does not exist. Each manufacturer establishes a minimum requirement that oils should meet for use in their equipment. John Deere has established a JDM J20 specification for minimum tractor hydraulic fluid performance. John Deere Hy-Gard exceeds the performance of their JDM-J20 specification counterparts. John Deere's green and yellow colour scheme, the leaping deer symbol and John Deere are trademarks of Deere & Company.