



A Subsidiary of PETRONAS Chemicals Group

PRODUCT DATA SHEET

Petrolad[®] 5101

Universal Tractor Transmission Oil
(UTTO) Additive Package

BRB Lube oil Additives & Chemicals

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Product Description

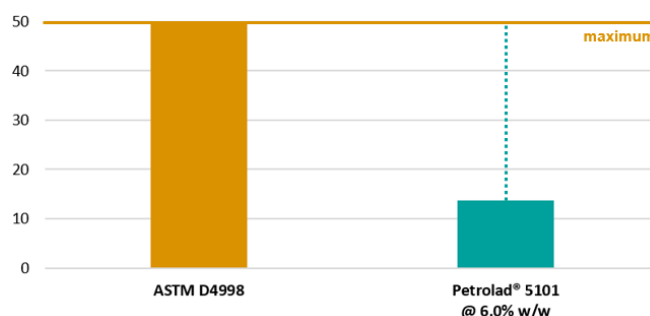


Petrolad® 5101 is a universal off-road additive package, designed to formulate UTTO fluids. The product is suitable for transmissions, power steering and hydraulic systems within tractors. Through its key specification coverage, it meets the needs of traditional vehicles, prevalent in the largest tractor markets globally. Petrolad® 5101 can also be used for non-farming applications that have wet brakes, powershift transmissions and hydraulics. This package is proven to work within various base oil formulations, while exhibiting particularly great qualities in GR II blends.

Benefits

- Superior friction control & minimal foaming;
- Outstanding (low-speed) anti-wear qualities to protect the final drive gears, without damaging the soft, yellow metals in many hydraulic pumps;
- Excellent oxidation & copper corrosion prevention in axial piston hydraulic pumps;
- Eliminated chatter in wet brakes & reduced operator fatigue;
- An economic treat rate, especially with the wide spec coverage, making it a desirable offering for cost-conscious customers.

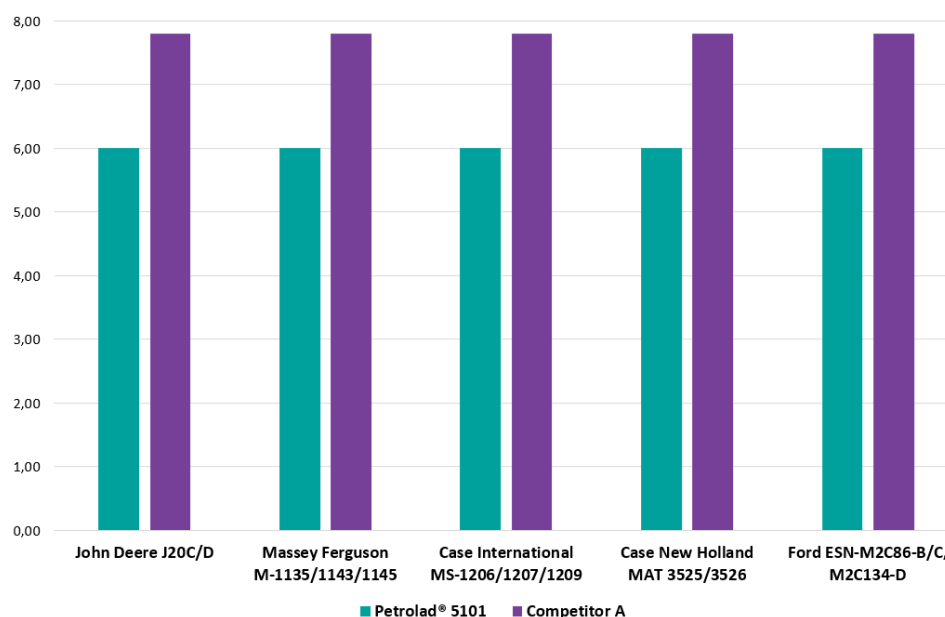
FZG Low Speed Tractor Gear Wear: Mass Loss (mg)
GR II BO Formulation



Performance

| UTTO Specification | Dosage (% w/w) |
|--|----------------|
| John Deere J20C / J20D | 6,00 |
| J. I. Case MS 1205 / 1206 / 1207 / 1209 / 1210 | 6,00 |
| Massey Ferguson CMS M1135 / 41 / 43 / 45 | 6,00 |
| Ford M2C 86B/C, 134D | 6,00 |
| Case New Holland MAT 3505, 3525 / 3526 | 6,00 |

Specification Performance Superiority (% w/w)



Purely based on internal theoretical evaluations, Petrolad® 5101 is suitable for Kubota UDT, GL-4, Landini, Eaton Vickers, Denison & Caterpillar TO-2.

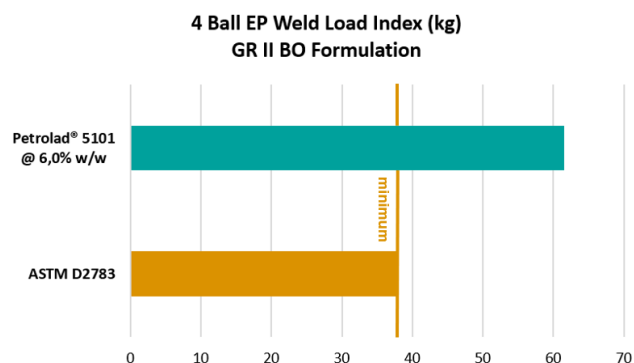
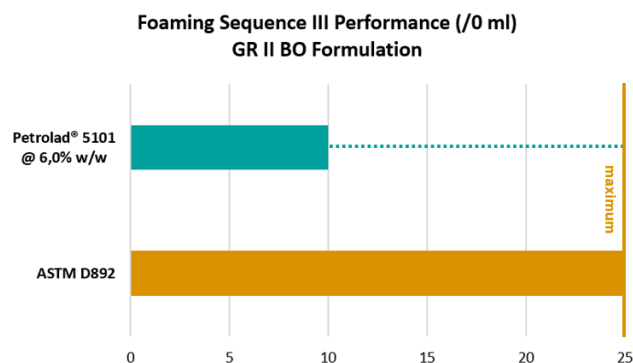
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Typical Data

| Parameter | Method | Unit | Typical |
|------------------------------|------------|-------------------|---------|
| Density @ 15,6 °C | ASTM D4052 | g/cm ³ | 1,100 |
| Kinematic viscosity @ 40 °C | ASTM D445 | cSt | 110 |
| Kinematic viscosity @ 100 °C | ASTM D445 | cSt | 13 |
| Flashpoint (PMCC) | ASTM D93 | °C | 150 |
| Total base number (TBN) | ASTM D2896 | mg KOH/g | 160 |
| Zinc content | IHTM | % w/w | 2,40 |
| Calcium content | IHTM | % w/w | 5,80 |
| Phosphorus content | IHTM | % w/w | 2,10 |

Handling & Storage

Petrolad® 5101 should be stored below 45 °C. The optimal blending and pumping temperature is 70 °C.

The abovementioned properties are typical and should not be used as quality control parameters to accept or reject the product. An MSDS is available upon request.

FOR MORE INFORMATION

Please contact

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IMPORTANT NOTICE

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