

Product Data Sheet

Servo Transmission C4 SAE 10W / SAE 30

Automatic Transmission Fluids



Description

Servo Transmission C4 fluids are formulated to meet the specification of General Motors Corporation, USA for hydraulic transmission fluid type C4. These fluids are blended from selected lubricating oil base stocks with special additives to impart high oxidation stability, anti-wear, anti-rust, anti-foam and desired frictional characteristics in service. Servo Transmission C4 fluids are evaluated in accordance with Allison C4 specifications (Allison TES 228). It is recommended for heavy duty automatic and powershift transmissions on off-highway equipment used in earthmoving, mining logging, road transport and agricultural applications and requiring Allison C-4 quality fluids. The fluids are compatible with seal material generally used in hydraulic transmission systems

Performance, Features and Benefits

Servo Transmission C4 fluids

- Enable smooth operation of precision hydraulic control systems
- Excellent anti-wear properties and thermo-oxidation stability
- Have the desired friction characteristics for smooth engagement/disengagement of clutch to provide a "soft shift feel"
- Give high protection against rust and corrosion to the components of the transmission system
- Provide excellent seal life due to good compatibility with seal and component materials normally used in hydraulic transmission systems

Application

Servo Transmission C4 fluids are recommended for all commercial power shift transmissions, industrial torque convertors and automatic transmissions manufactured by Detroit Diesel Allison, Division of General Motors Corporation, USA. Such hauling and cycling transmissions are fitted on a wide variety of off-highway equipment e.g., dumpers, scrapers, shovel loaders, log loaders, crawler tractors, excavators.

Approvals / Performance Standards / Recommendations

Servo Transmission C4 fluids meets:

- TES-228 for Hydraulic Transmission Fluid Type C4 of Detroit Diesel Allison, Division of General Motors Corporation, USA

Servo Transmission C4 fluids are approved by:

- Bharat Earth Movers Ltd., Bangalore/ Mysore
- Detroit Diesel Allison, Division of General Motors Corporation, USA
- Hindustan Motors-Terex Ltd., Trivellore
- Allison Transmissions

Typical Physical Characteristics

| Parameter | Method | SAE 10W | SAE 30 |
|----------------------------------|------------|---------|--------|
| Appearance | Visual | Clear | Clear |
| Colour | ASTM D1500 | 1.5 | 2.5 |
| Flash point COC, °C | ASTM D92 | 222 | 239 |
| Pour point, °C | ASTM D97 | -36 | -33 |
| Kinematic viscosity@100°C, cSt | ASTM D445 | 6.38 | 10.32 |
| Viscosity Index | ASTM D2270 | 125 | 118 |
| Brookfield Viscosity@-18.2°C, cP | ASTM D2983 | 2800 | -- |
| Brookfield Viscosity@-10°C, cP | | -- | 3299 |
| Copper Corrosion@150degC, 3hrs | ASTM D130 | 1b | 1A |
| Rust test | ASTM D665A | Pass | Pass |

Health, Safety & Environment

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or at <https://cx.indianoil.in/>. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

24 NOV 2020

All trademarks used herein are trademarks or registered trademarks of Indian Oil Corporation or one of its subsidiaries unless indicated otherwise. Values reported are typical of those obtained with normal production tolerance, and may vary from batch to batch. Due to continual product research and development, the information contained herein is subject to changes without notification. Material Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. All products, services and information supplied are provided under our standard conditions of sale.

For further information, please contact our nearest office or:

Technical Services Department,
Indian Oil Corporation Ltd.,
G-9, Ali Yavar Jung Marg, Bandra (E),
Mumbai – 400051

E-Mail: servotechserv@indianoil.in or
servots@indianoil.in | <https://cx.indianoil.in/>