



**Shield Lubricants & Specialities Pvt. Ltd.**

## LABORATORY TEST REPORT

|  |                 |
|--|-----------------|
| PRODUCT NAME : SHIELD PERFORMANCE FORMULA 4T 20W40 | DATE : 21/12/17 |
| BATCH NO : SL/17-12/616                            |                 |

| SR. NO. | TEST PARAMETER       | TEST METHOD | CUSTOMER SPECIFICATION |         | BATCH RESULT |
|---------|----------------------|-------------|------------------------|---------|--------------|
|         |                      |             | MINIMUM                | MAXIMUM |              |
| 1       | Appearance           | Visual      | Clear & Bright Red Oil |         | Cl. & Br.    |
| 2       | Crackle Test         | In-House    | NIL                    |         | Nil          |
| 3       | Colour               | ASTM D-1500 | Match with Standard    |         | Red          |
| 4       | Density @29.5°C      | ASTM D-1298 | To Be reported         |         | 0.8656       |
| 5       | Kin Visc.@100°C      | ASTM D-445  | 14                     | 15.5    | 15.10        |
| 6       | Kin Visc.@40°C       | ASTM D-445  | To Be reported         |         | 128.9        |
| 7       | Viscosity Index      | ASTM D-2270 | 110 Minimum            |         | 120          |
| 8       | Flash Point, °C, COC | ASTM D-92   | 220(T)                 |         | 234          |
| 9       | Pour Point, °C       | ASTM D-97   | -24 Maximum            |         | -27          |
| 10      | TBN, mg of KOH/gm    | ASTM D-2896 | 6.0 Minimum            |         | 7.81         |

Tested By: *Sandip*