



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

**LABORATORY TEST REPORT**

|  |                          |
|--|--------------------------|
| <b>PRODUCT NAME :SHIELD PERFORMANCE FORMULA 4T 20W40API SM</b> | <b>DATE : 04/01/2021</b> |
| <b>BATCH NO : SL/21-01/1319</b>                                | <b>LAB.SR.NO-612</b>     |

| SR. NO. | TEST                        | TEST METHOD | UNIT              | SPECIFICATION  |         | BATCH TEST REPORT |
|---------|-----------------------------|-------------|-------------------|----------------|---------|-------------------|
|         |                             |             |                   | MINIMUM        | MAXIMUM |                   |
| 1       | Appearance                  | Visual      | ....              | Clear & Bright |         | Clear & Bright    |
| 2       | Crackle Test                | Visual      | ....              | Nil            |         | Nil               |
| 3       | Colour                      | ASTM D-1500 | ....              | Red            |         | Red               |
| 4       | Density @29.5°C             | ASTM D-1298 | Kg/m <sup>3</sup> | Reported       |         | 0.8790            |
| 5       | Kinematic Viscosity @ 100°C | ASTM D-445  | Cst               | 14.00          | 15.50   | 14.67             |
| 6       | Kinematic Viscosity @ 40°C  | ASTM D-445  | Cst               | Reported       |         | 121.2             |
| 7       | Viscosity Index             | ASTM D-2270 | ....              | 110            |         | 123               |
| 8       | TBN, mg of KOH/gm           | ASTM D-2896 | mg of KOH/gm      | 7.5            |         | 7.96              |
| 9       | Flash Point ,COC            | ASTM D-92   | °C                | 220            |         | 234               |
| 10      | Pour Point                  | ASTM D-97   | °C                |                | -24     | -24               |

**Remark: sample pass**

**Tested By: Anil Jahrad**

**Approved By: Sandip Bhayaje**