



## LubenzAdd<sup>®</sup> 5019 HEAVY DUTY DIESEL ENGINE OIL ADDITIVE

### ❖ PRODUCT INTRODUCTION:

LubenzAdd 5019 is a mainstream diesel engine oil additive. It provides high quality and stable performance for heavy duty diesel engine. The product contains optimized combination of dispersant, antioxidant, excellent detergent, and has excellent wear resistance. Its effective protection of the engine prolongs the oil service life.

### ❖ RECOMMENDED DOSAGE:

| API PERFORMANCE LEVEL | SAE VISCOSITY GRADE | TREAT RATE. |
|-----------------------|---------------------|-------------|
| CF-4                  | 10W30, 15W40        | 7.8 %       |
| CH-4                  | 10W30, 15W40        | 8.2 %       |
| CI-4                  | 10W30, 15W40        | 10.10 %     |
| CI-4 Plus             | 10W30, 15W40        | 10.90%      |

### ❖ PRODUCT QUALITY CHARACTERISTICS & TEST METHOD:

| PROPERTIES                        | TEST METHOD       | TYPICAL VALUES          |
|-----------------------------------|-------------------|-------------------------|
| Appearance                        | Visual Inspection | Dark Brown Clear Liquid |
| Calcium Content, %wt.             | ASTM D4951        | 2.50                    |
| Zinc Content, %wt.                | ASTM D4951        | 1.10                    |
| Phosphorus % wt.                  | ASTM D4951        | 1.00                    |
| Molybdenum % wt.                  | ASTM D4951        | 0.03                    |
| Boron % wt.                       | ASTM D4951        | 0.40                    |
| Magnesium % wt.                   | ASTM D4951        | 0.50                    |
| Nitrogen, %.                      | ASTM D 2868       | 0.70                    |
| Flash Point                       | ASTM D92          | 180                     |
| TBN, mg KOH/gm                    | ASTM D2896        | 95 – 105                |
| Kinematic Viscosity, CST at 100°C | ASTM D 445        | 80 - 90                 |

### ❖ PRODUCT STORAGE / HANDLING / TRANSPORTATION / PACKAGE:

The Storage temperature should not exceed 50°C the loading / unloading and blending temperature should not exceed 60°C. It is not flammable, not explosive, not corrosive, in the items of safety, environment protection etc. it is normal petroleum product, with no special protection. The product packed with 200 Kgs drums and 50 kgs carbos.

### ❖ SAFETY AND HANDLING INFORMATION:

For further information, please refer to relevant MSDS