



# GULF WESTERN OIL

## THE TOUGH AUSTRALIAN

### INDUSTRIAL/OFF HIGHWAY

## TECHNICAL DATA SHEET

# TOP DOG GLOBAL PLUS

### SUMMARY OF BENEFITS

- Extended drain intervals for more up time. (Meets Volvo VDS-4 extended drain intervals)
- Semi synthetic, providing fuel saving capability
- Semi synthetic, providing reduced oxidation and viscosity breakdown
- Suitable for Diesel Particulate Filters (DPF's) and engine fitted with Exhaust Gas Recirculation
- Superior sludge and soot control for a cleaner engine
- Reduced oil consumption
- Greatly reduced engine wear giving extended engine life
- Very good low temperature viscometrics for reduced wear at start up
- Low SAPS formulation (Sulfated Ash, Phosphorus and Sulfur).

### SPECIFICATIONS

- SAE Viscosity 10W-40 • API CJ-4, CI-4, CH-4/SN • ACEA E9-2012, E7-04 (2007), A3/B4-04 (2007), E5-02 (2002), E3-98 Issue 4 (2002) • GLOBAL DDH-1 • Cummins CES 20081, 20078, 20077, 20076 • Mack EO-O Premium Plus • Mercedes Benz 228.31
- Volvo VDS-3, VDS-4 • Allison C4 • Caterpillar ECF-3, ECF-2, ECF-1, TO-2 • MTU Type 2.1 • Detroit Diesel DDC 93K218, Series 60, Series 2000/4000 Type 1 • MAN 3575 • Renault Truck RLD/RLD-2, RLD-3 • Fendt QDC 111-10 LA

### TYPICAL PROPERTIES

| CHARACTERISTICS                       | TEST METHOD | UNITS   | RESULTS |
|---------------------------------------|-------------|---------|---------|
| Density @ 15°C                        | ASTM D1298  | Kg/L    | 0.86    |
| Kinematic Viscosity @ 40°C<br>@ 100°C | ASTM D445   | cSt     | 104     |
|                                       | ASTM D445   | cSt     | 15.5    |
| Viscosity Index                       | ASTM D2270  | -       | 149     |
| Apparent Viscosity at -20°C           | ASTM D5293  | cP      | 6000    |
| Pour Point                            | ASTM D97    | °C      | -30     |
| Flash Point (COC)                     | ASTM D92    | °C      | 210     |
| Total Base Number                     | ASTM D2896  | mgKOH/g | 10.0    |
| Sulphated Ash                         | ASTM D874   | % mass  | <1.00   |

*Typical characteristics are only a guide to industry and are not necessarily manufacturing or marketing specifications and do not constitute any legal liability.*

### STORAGE

All packages should be stored under cover to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 60°C.

### AVAILABLE PACK SIZES

IBC -30013B, 205lt - 30013, 20lt - 32013, 10lt - 31013, 5lt - 30513

### HEALTH, SAFETY AND ENVIRONMENT

Health, safety and environmental information is provided for this product in the relevant Materials Safety Data Sheet, which can be obtained by contacting Gulf Western Oil on: 02 9673 9600.