

# Q8 Heller 46

### Application

- Off highway equipment and other hydraulic systems exposed to wide temperature fluctuations

### Specifications

- DIN 51524 part 3, category HVLP
- ISO 11158, category HV
- AFNOR 48-603, category HV
- ISO 6743-4, category HR and HV
- DIN 51502, category HVLP

### Benefits

- Optimum anti-wear performance, based on a zinc diakylidithiophosphate additive
- Wide application temperature range through low pour point and outstanding low and high temperature viscosity characteristics
- Trouble-free operation due to the unique combination of outstanding demulsibility, foam, air release, hydrolytic stability and filterability
- Long term stable fluid viscosity through excellent shear stability characteristics of the selected viscosity index improver

### References

- Q8 Heller meets the requirements of most off highway equipment manufacturers.
- The zinc based additive package meets Denison HF-0, HF-1 and HF-2 requirements.

| Properties                         | Method    | Unit               | Typical     |
|------------------------------------|-----------|--------------------|-------------|
| ISO Viscosity Grade                | -         | -                  | 46          |
| Absolute Density, 15 °C            | D 4052    | kg/m <sup>3</sup>  | 875         |
| Kinematic Viscosity, 40 °C         | D 445     | mm <sup>2</sup> /s | 46.0        |
| Kinematic Viscosity, 100 °C        | D 445     | mm <sup>2</sup> /s | 8.15        |
| Viscosity Index                    | D 2270    | -                  | 152         |
| Flash Point                        | D 92      | °C                 | 218         |
| Pour Point                         | D 97      | °C                 | -36         |
| Rust Test, Proc. A and B, 24 h     | D 665     | -                  | pass        |
| Emulsion, Distilled Water, 54.4 °C | D 1401    | -                  | 40-40-0(10) |
| Air Release, 50 °C                 | DIN 51381 | min                | 5           |
| Foam, 5 min blowing, seq. 1/2/3    | D 892     | ml                 | 10/0/10     |
| 10 min settling, seq. 1/2/3        |           | ml                 | 0/0/0       |
| Copper Strip, 3 h, 100 °C          | D 130     | -                  | 1           |

The figures above are not a specification. They are typical figures obtained within production tolerances.

