

# SHELL DIALA S5 BD TRANSFORMER OIL



Delivering exceptional cold temperature performance

As global electricity demand increases, energy transmission and distribution in arctic environments continues to grow. Operating transformers in very cold conditions comes with a set of unique challenges. Shell Diala S5 BD transformer oil is designed to provide excellent cold temperature performance, so your equipment can thrive in cold and arctic conditions.

## COLD STARTS

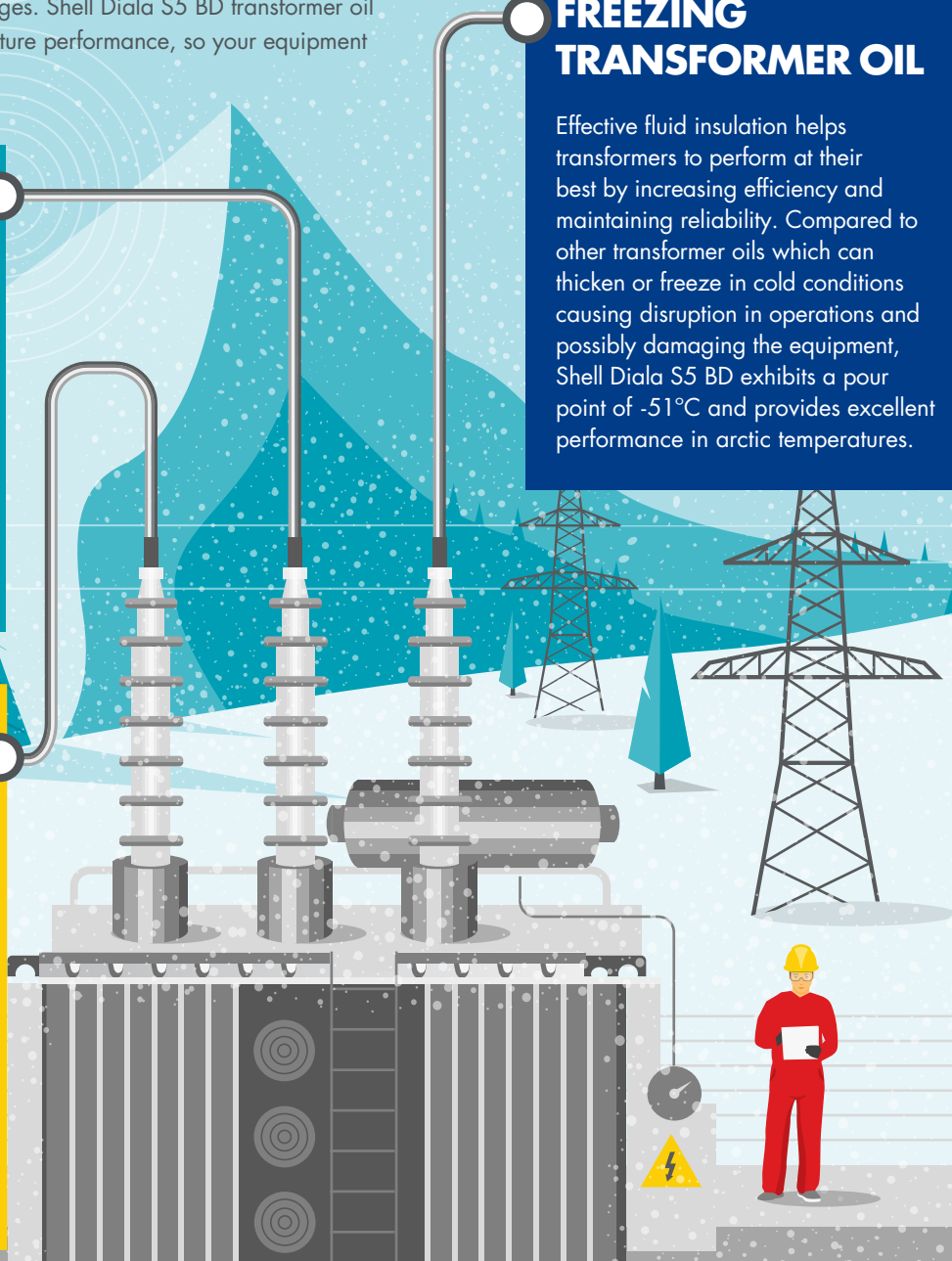
Start-ups in sub-zero temperatures can be very difficult. In order to prevent freezing, operators are often reluctant to switch equipment off, which causes energy expenditures to increase. Shell Diala S5 BD transformer oil has a viscosity lower than 1,000 cSt at -40°C and excellent Lowest Cold Start Energising Temperature (LCST), which ensures lubrication needs are met even at very low temperatures.

## HEAT TRANSFER PERFORMANCE

In order to manage internal heat generation, it is critical for the transformer oil to circulate throughout the machinery and cool hot spots which could damage the internal components. Transformer oil that is too thick may not circulate effectively and could put your equipment at risk. Shell Diala S5 BD has excellent flow properties, even at very low temperatures, helping to prevent overheating and equipment breakdown.

## FREEZING TRANSFORMER OIL

Effective fluid insulation helps transformers to perform at their best by increasing efficiency and maintaining reliability. Compared to other transformer oils which can thicken or freeze in cold conditions causing disruption in operations and possibly damaging the equipment, Shell Diala S5 BD exhibits a pour point of -51°C and provides excellent performance in arctic temperatures.



TRANSFORMERS OPERATE IN INTENSE CONDITIONS. SHELL DIALA S5 BD PROVIDES:



Excellent cooling and heat transfer properties, enabling system efficiency



Low pour point: -51°C



Excellent cold flow properties



Outstanding protection with leading technology