



Shell Diala S4 ZX-I

Greater reliability and superior performance from a new transformer oil based on Shell GTL technology

www.shell.com/lubricants

WORKS HERE.

APPLICATIONS

Suitable for all types of power, transmission and distribution transformers.



SETTING A NEW STANDARD

Shell Diala S4 ZX-I is the latest offering in the Shell Diala range of transformer oils. These oils have been supplied to the power industry for more than 50 years and Shell Diala S4 ZX-I has been engineered to cope with the severe stresses imposed by the higher voltages and harsher operating conditions of the latest transformers.

SUPERIOR PERFORMANCE

Shell Diala S4 ZX-I helps to keep your transformer working more efficiently and for longer than conventional oils do.

It offers improved transformer reliability due to its resistance to degradation as well as having effectively zero sulphur, which removes the risk of oil-related copper corrosion.

In addition, Shell Diala S4 ZX-I can enhance your transformer's operation with its excellent thermal properties under conditions of overload and also low temperature start up.

SPECIFICATIONS & APPROVALS

Shell Diala S4 ZX-I exceeds IEC60296: Edition 4 (2012) high oxidation stability and low sulphur specifications. It meets the requirements of most major equipment manufacturers and utility companies.

Oxidation stability is up to 5x better than the industry highest oxidation stability standard requirements.



HIGH FLASHPOINT
191°C
TYPICAL



LOW VISCOSITY AT LOW TEMP
-30°C



SULPHUR CONTENT
0

EFFECTIVELY ZERO, BELOW USUAL DETECTION LIMITS

A GLOBALLY CONSISTENT PRODUCT

Shell Diala S4 ZX-I is derived from purified natural gas which is used to produce a tightly specified hydrocarbon chemical structure. This defined chemistry delivers consistent and reliable performance, unlike crude-based oils which can vary significantly depending on the source and refining process.

The quality of Shell Diala S4 ZX-I is neither crude oil nor location dependent.

Long term availability is assured, given that Shell anticipates supplies of natural gas will last several hundred years.

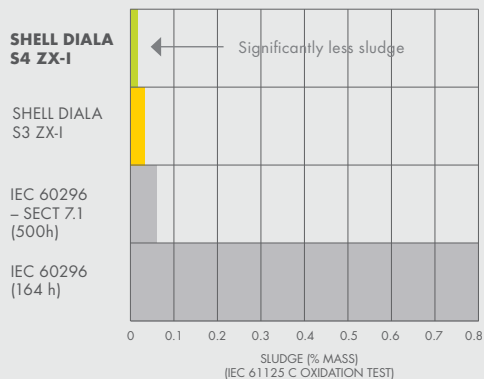


TRANSFORMER RELIABILITY

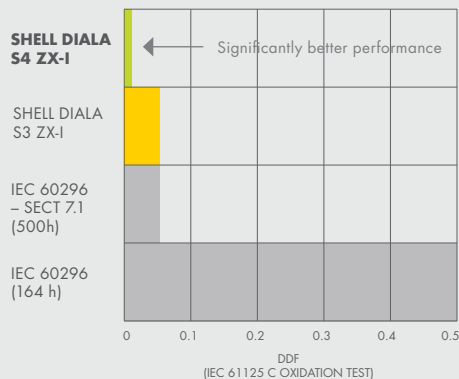
Shell Diala S4 ZX-I is essentially sulphur free, protecting transformers from failure by reducing the risk of corrosive sulphur developing from the insulating oil.

It performs up to five times better than the highest industry standard for oxidation stability, ensuring better efficiency and a longer operational life.

SLUDGE, % MASS (LESS IS BETTER)



DIELECTRIC DISSIPATION FACTOR AT 90 °C (LESS IS BETTER)



Data values shown are typical of current production. Whilst future production will confirm to Shell's specification, variations in these characteristics may occur

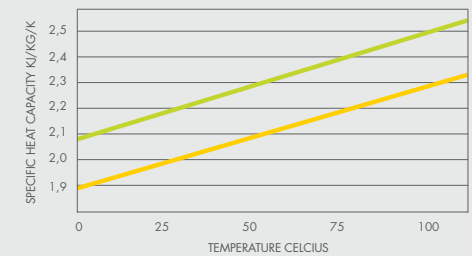
TRANSFORMER PERFORMANCE

Shell Diala S4 ZX-I has excellent resistance to degradation. Compared to conventional oils, its improved thermal properties help to reduce the ageing rate of both the oil and insulating paper, extending the lifetime of your transformers.

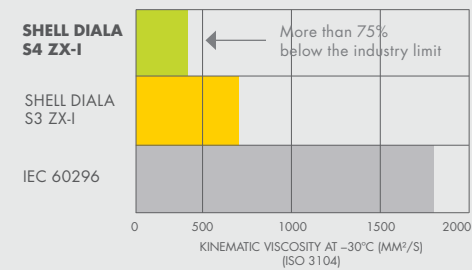
It offers excellent performance across a wide range of temperatures with especially outstanding low temperature flow properties.

SHELL DIALA S3 ZX-I SHELL DIALA S4 ZX-I

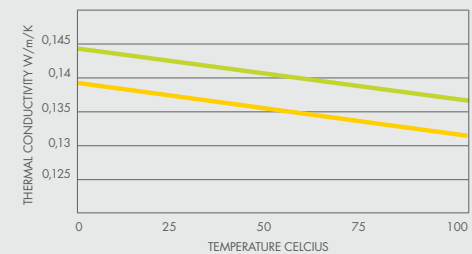
CALCULATED SPECIFIC HEAT CAPACITY VERSUS TEMPERATURE



KINEMATIC VISCOSITY (LESS IS BETTER)



CALCULATED THERMAL CONDUCTIVITY VERSUS TEMPERATURE



OPERATIONAL SIMPLICITY

Shell Diala S4 ZX-I is simple and easy to use. It is fully miscible with traditional oils. In fact, adding it to some conventional naphthenic grades can improve their performance.

It contains hydrocarbon base oil and antioxidant, free from PCBs, DBDS and other additives.

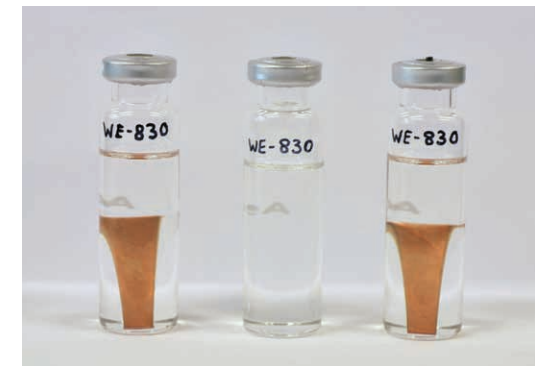


Image: fresh Diala S4 ZX-I

FULL PRODUCT & SERVICE PORTFOLIO

Whatever your needs or application, we can provide a full range of oils and greases, including synthetic, high-performance products and additional services.

CONTACT

Talk to us about the benefits that GTL-based Shell Diala oils could have for your business.



Find out more by visiting
www.shell.com/lubricants