



Shell Tonna S2 M

SHELL
LUBRICANT SOLUTIONS

- Extra separation from coolants
- Standard applications

Every part of your machine or process has been meticulously engineered, so you want to use a lubricant that has been designed to ensure that your equipment is well protected and works efficiently.

The Shell Tonna range of slideway oils has been developed to enable equipment operators to select the oil that will deliver optimum value to their operations through

- **wear and corrosion protection**
- **long oil life**
- **system efficiency.**

Performance at a glance	Protection	Oil life	System efficiency
Shell Tonna S3 M • Extra machining accuracy • Standard applications	✓✓✓✓	✓✓✓✓	✓✓✓✓✓
Shell Tonna S2 M • Extra separation from coolants • Standard applications	✓✓✓	✓✓✓✓	✓✓✓✓

Performance level is a relative indication only.



A premium machine tool slideway oil

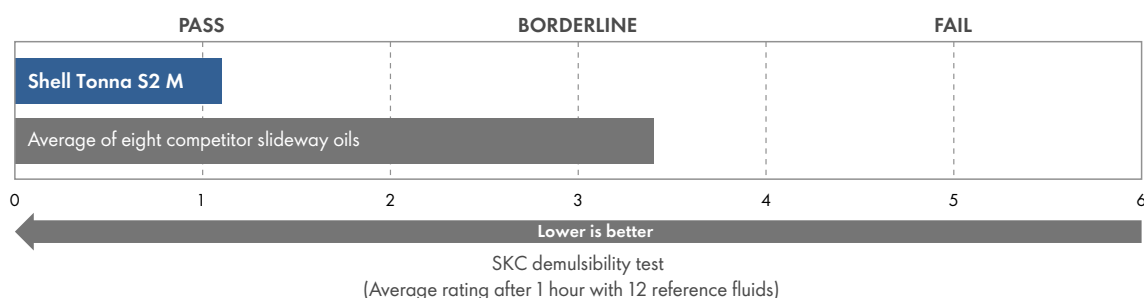
Shell Tonna S2 M is specially designed for the lubrication of machine tool slides, tables and feed mechanisms. It features highly refined mineral oils and special additives to enhance the crucial property of adhesion and reduce stick-slip. It is also a fluid you can trust in applications where there is high exposure to soluble cutting fluids, as it separates completely and immediately for longer coolant life and better cutting performance.

Very low odour, light colour: Shell Tonna S2 M has been designed to improve the working environments where it is used.

Designed for high efficiency

Your choice of slideway oil can be decisive in managing tramp oils. Better separation between the coolant and the slideway oil enables the slideway oils to be easily removed, thereby limiting the development of bacteria and fungi in the coolant.

In the industry-standard test, Shell Tonna S2 M achieved **exceptional levels of separation** from all types of coolants: synthetic, semi-synthetic and emulsions.

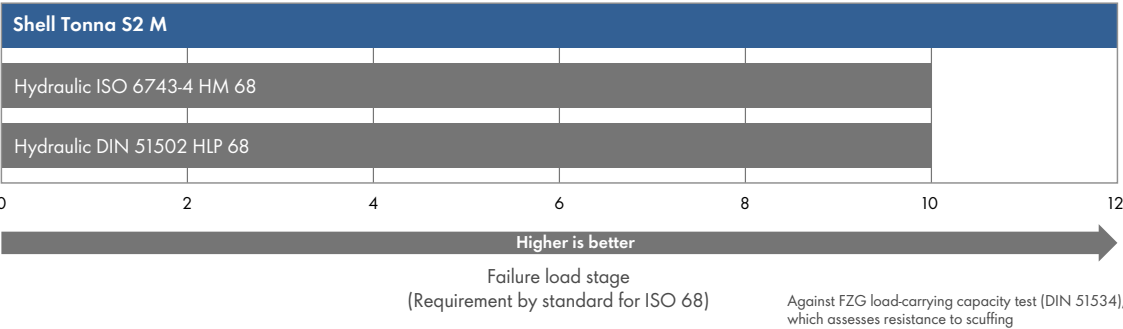


[Click here to read the expanded figure description in the appendix.](#)

Designed to protect

Protecting components from damage can help to increase your equipment’s service life and maximise your return on investment. Shell Tonna S2 M has been formulated to help protect your slideways, gears, bearings and hydraulic system components from corrosion and wear.

It meets or exceeds FZG scuffing test requirements (Institute for Machine Elements, Gear Research Centre), which shows its excellent wear protection.



[Click here to read the expanded figure description in the appendix.](#)

Designed for long oil life

Shell Tonna S2 M has good slideway adhesion characteristics, which restrict its leakage into the cutting fluid sump and reduce consumption. It also helps to maintain uniform working conditions for your machine.

Specifications and approvals

Shell Tonna S2 M meets the requirements of a wide range of industry bodies and equipment manufacturers. ISO viscosity grades available: 32, 68, 220.

Claims and approvals	Meets requirements
Cincinnati Machine P-50 (ISO 220)	ISO 19378
Cincinnati Machine P-47 (ISO 68)	ISO 6743-13 GA and GB
Cincinnati Machine P-53 (ISO 32)	DIN CGLP

Applications



Machine tool slideways, tables and feed mechanisms – for use on a wide range of surface materials, including cast iron and synthetic materials.

Hydraulic and gearbox systems – for good anti-wear performance. (Shell Tonna S3 M should also be considered.)

Shell Tonna S2 M 32 and Shell Tonna S2 M 68 are intended for horizontal slide lubrication. Shell Tonna S2 M 220 is intended for vertical slides owing to its higher viscosity grade.

Real-world value delivery

A wide variety of customers has unlocked value by moving to a higher quality machine tool slideway oil. For instance, some have

- extended coolant sump life by 20%, with the associated product cost savings
- increased their speed of operations and right-first-time machining – one customer reports enhancing margins by \$87,000 a year¹
- enhanced efficiency through exceptional machining accuracy.

Full product and 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.

¹ Saving reported by one customer. Actual savings may vary, depending on the application, the current oil used, the maintenance procedures and the condition of the equipment.



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

Appendix

Horizontal bars show that Shell Tonna S2 M achieves a lower average demulsibility rating after 1 hour than the average of eight competitor slideway oils, in the SKC demulsibility test with 12 reference fluids. It is well within the pass range, while the competitor average falls within the borderline range.

[Return to page 2](#)

Horizontal bars show that Shell Tonna S2 M reaches the maximum failure load stage of 12 in the FZG load-carrying capacity test, a requirement by standard for ISO 68, indicating enhanced resistance to scuffing. Two grey bars show standard hydraulic oils – ISO 6743-4 HM 68 and DIN 51502 HLP 68 – reach a failure load stage of 10.

[Return to page 2](#)