

# Shell Tonna S2 M



- Extra separation from coolants
- Standard applications



**DESIGNED TO MEET CHALLENGES**

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
<b>Shell Tonna S3 M</b> ■ Extra machining accuracy ■ Standard applications	✓✓✓✓	✓✓✓✓	✓✓✓✓✓
<b>Shell Tonna S2 M</b> ■ 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.

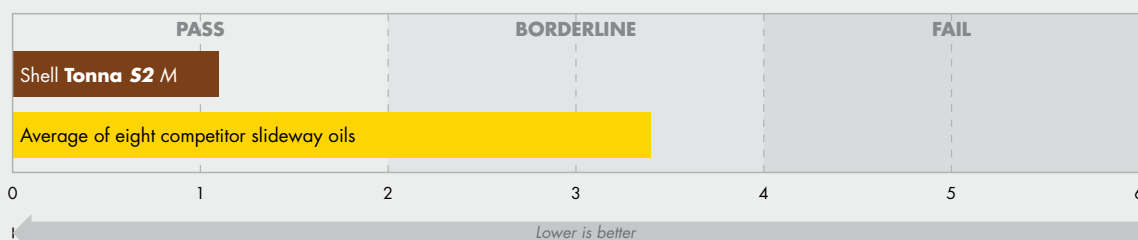
**VERY LOW ODOUR, LIGHT COLOUR:** Shell Tonna S2 M has been designed to improve the working environments where it is used.

## 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.*

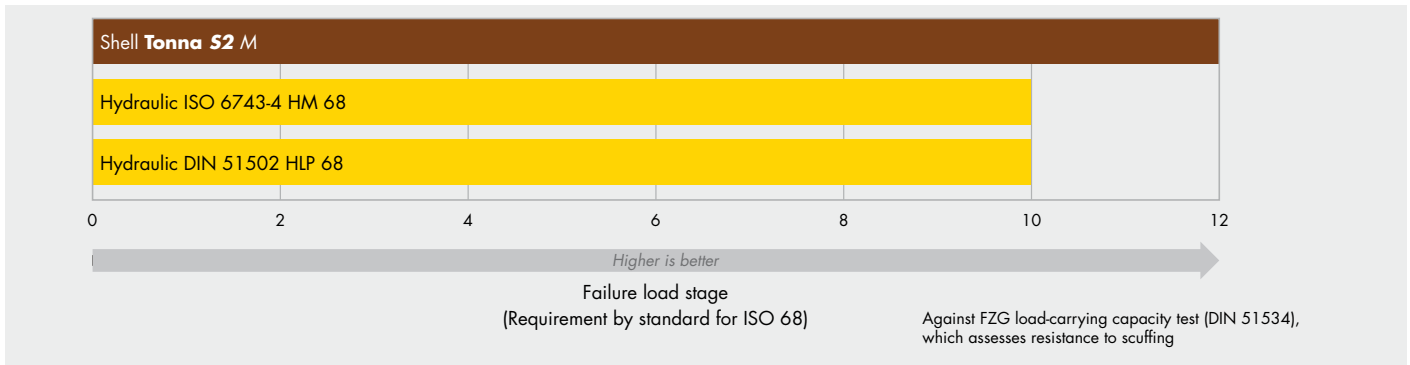


SKC demulsibility test  
(Average rating after 1 hour with 12 reference fluids)

## 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.**



## 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 year<sup>1</sup>
- 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.

<sup>1</sup>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.

For more information, please contact

[shell.com/lubricants](http://shell.com/lubricants)



# Shell Tonna S3 M



- Extra machining accuracy
- Standard applications

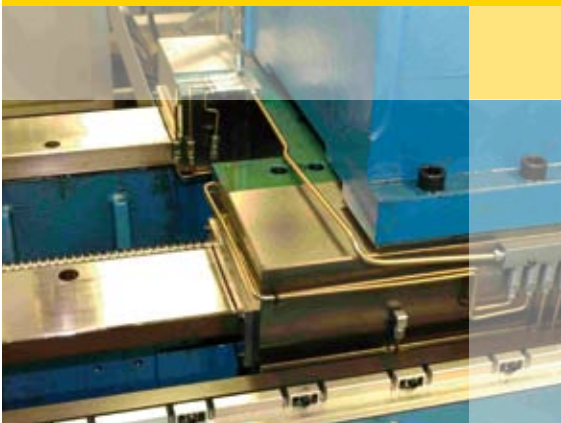


**DESIGNED TO MEET CHALLENGES**

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
<b>Shell Tonna S3 M</b> ■ Extra machining accuracy ■ Standard applications	✓✓✓✓	✓✓✓✓	✓✓✓✓✓
<b>Shell Tonna S2 M</b> ■ Extra separation from coolants ■ Standard applications	✓✓✓	✓✓✓✓	✓✓✓✓

Performance level is a relative indication only.

## A BEST-IN-CLASS MACHINE TOOL SLIDEWAY OIL

Shell Tonna S3 M is Shell's top-performing oil specially designed for the lubrication of machine tool slides, tables and feed mechanisms. With excellent frictional properties, very good slideway adhesion and excellent anti-wear performance, it can be relied on to provide efficient machining accuracy and reliable protection for your equipment, especially in high-precision, low-speed machines and combined lubrication systems.

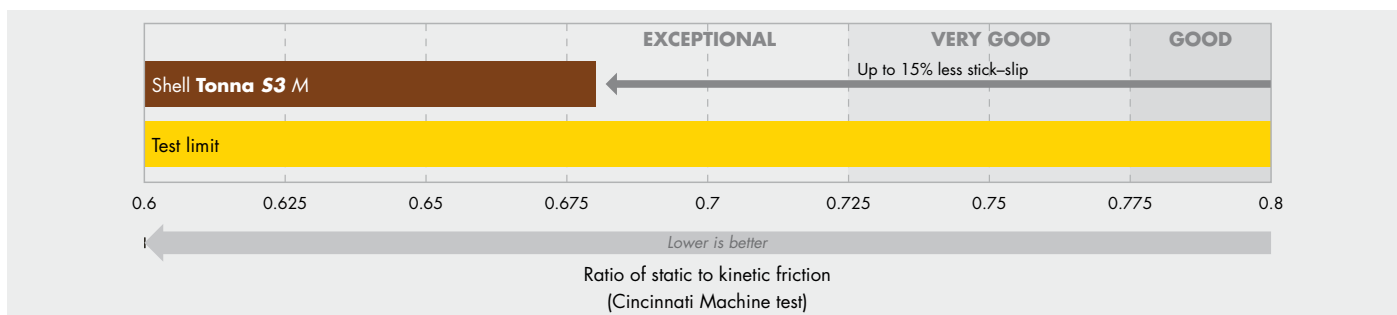
It features highly refined mineral oils and special additives to enhance the crucial property of adhesion and reduce stick-slip.

## DESIGNED FOR HIGH EFFICIENCY

Shell Tonna S3 M has exceptional anti-stick-slip properties. In industry-standard tests, it achieved

- **up to 15% less stick-slip**

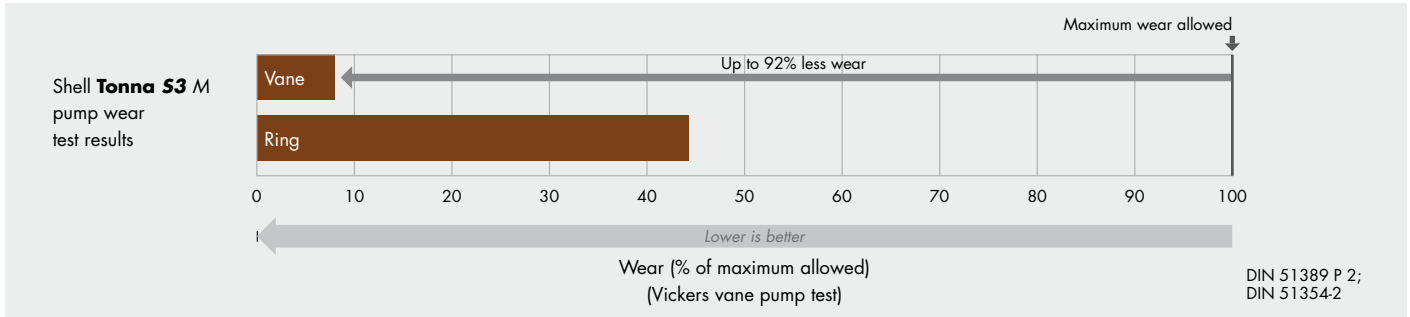
than the industry minimum requirement for smoother movement and more-accurate positioning.



## DESIGNED TO PROTECT

Protecting components from damage can help to increase your equipment's service life and maximise your return on investment. Shell Tonna S3 M has been formulated to help protect your slideways, gears, bearings and hydraulic system components from corrosion and wear. In the industry-standard test it achieved

- **up to 92% less wear**  
than the maximum allowed.



## DESIGNED FOR LONG OIL LIFE

Shell Tonna S3 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 S3 M meets the requirements of a wide range of industry bodies and equipment manufacturers. ISO viscosity grades available: 32, 68, 220.

Approvals	Meets requirements
Cincinnati Machine P-50 (ISO 220) Cincinnati Machine P-47 (ISO 68)	ISO 11158/ISO 6743-4 HM and HG ISO 12925-1/ISO 6743-6 CKC ISO 19378/ISO 6743-13 GA and GB DIN CGLP

## 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

- increased machining precision and eliminated stick-slip and jerky movement: one customer reports saving \$46,000<sup>1</sup> a year in reduced maintenance costs and lost production time
- reduced oil consumption on slideway applications by up to 65% owing to the oil's good adhesion to slideways.

## 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.

<sup>1</sup>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.

## APPLICATIONS



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

Machine tool hydraulic systems – specially recommended for machines that have a combined hydraulic and slideway lubrication system

Machine tool gearboxes and spindles, and gear and headstock lubrication

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