



### Ultimate All-Round Performance – Ready for the Future

Carlube Triple R 5W-30 Fully Synthetic R-Tec 22 is an ultra-high performing engine oil that has been developed to provide maximum engine protection and fuel economy savings. It contains low levels of Sulfated Ash, Phosphorous and Sulfur (SAPS) to ensure aftertreatment compatibility and component longevity. This oil is approved to the very latest top tier specifications including VW 50400/50700, BMW LL-04 and Daimler MB229.52 as well as other leading Original Equipment Manufacturer (OEM) and industry performance requirements. It is therefore suitable for both older vehicles and today's most modern engines, including hybrids where such specifications are required.

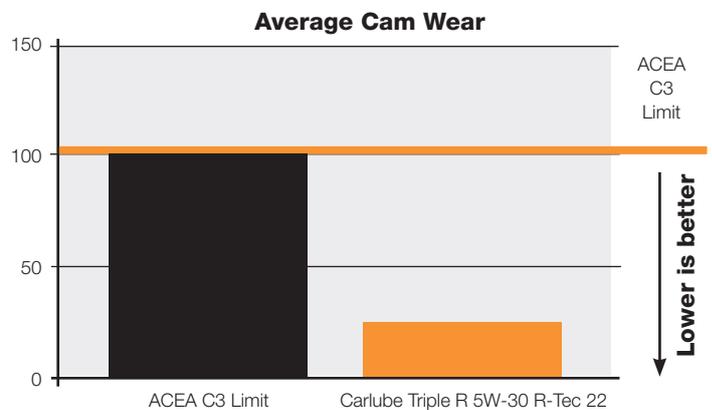
### Performance Benefits

Carlube Triple R 5W-30 R-Tec 22 provides several key benefits to vehicle owners, including superior engine cleanliness, wear protection, fuel economy and aftertreatment device compatibility.

Carlube Triple R 5W-30 R-Tec 22 delivers outstanding engine cleanliness by preventing the formation of harmful engine sludge and deposits. Sludge can cause oil starvation and increased engine wear, and the build-up of deposits can negatively impact on fuel economy, performance and engine life. Carlube Triple R 5W-30 R-Tec 22 keeps key components cool, clean, lubricated and working at their best.

The demand for greater efficiency and reduced emissions has seen an increase in the number of Turbocharged Gasoline Direct Injection (TGDI) engines. The result is a significant increase in engine power densities, which creates more severe operating conditions for the oil and could lead to new phenomena such as Low Speed Pre-ignition (LSPI).

LSPI is an uncontrolled combustion event thought to be caused by droplets or particles combusting before spark in the combustion chamber of GDI engines. It can create severe high-pressure conditions and result in broken piston rings and catastrophic engine damage. Both Daimler and the American Petroleum Institute (API) have included a LSPI test in their latest MB 229.52 and SP specifications to protect consumers against LSPI failures.



77% Below the Test Limit Requirements

Carlube Triple R 5W-30 R-Tec 22 is proven to perform in these harsh environments and protect against the latest failure modes such as LSPI, ensuring it protects and operates as intended throughout the drain interval.

Aftertreatment devices such as Diesel Particulate Filters (DPFs) or Gasoline Particulate Filters (GPFs) protect the environment from harmful pollution and contribute towards cleaner air quality. As a Low SAPS lubricant specifically designed for use in engines with aftertreatment devices, Carlube Triple R 5W-30 R-Tec 22 looks after both the engine and the environment.

Using an incorrect or inadequate oil with higher SAPS can cause DPF/GPF blockages resulting in reduced vehicle efficiency, increased fuel consumption and eventually contributing to component damage and even engine failure. Carlube Triple R 5W-30 R-Tec 22 maximises the lifetime of your aftertreatment device, minimising the inconvenience and costs of repairs.

In addition to providing exceptional engine protection and cleanliness, Carlube Triple R 5W-30 R-Tec 22 demonstrates substantial fuel economy improvements, delivering a 1.6% reduction in fuel consumption over the ACEA C3 reference.

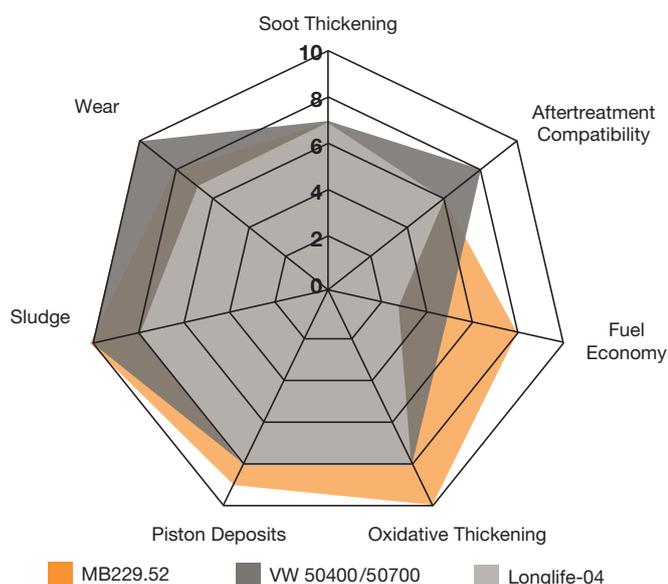


## Carlube Triple R 5W-30 Fully Synthetic R-Tec 22 Performance Specifications

Issuing Body	Performance Specification
ACEA	C3
API	SP
VOLKSWAGEN	VW 50400/50700
BMW	LL-04
DAIMLER	MB 229.31/51/52
PORSCHE	C30

The chart below demonstrates the ultimate all-round performance offered by the VW 50400/50700, BMW LL-04 and Daimler MB 229.52 specifications.

**VW 50400/50700, BMW LL-04 and Daimler MB 229.52 Performance**



### Product Reference

Size	Part No	Barcode
1 Litre	KFI001	5010373119952
5 Litre	KFI005	5010373119969
20 Litre	N/A	N/A
60 Litre	N/A	N/A
199 Litre	N/A	N/A
500 Litre	N/A	N/A
1000 Litre	N/A	N/A

### Properties

Property	Result	
SAE Viscosity Grade	5W-30	
Density @ 15°C (g/mL)	0.8504	
Kinematic Viscosity (mm <sup>2</sup> /s)	@40°C	68.3
	@100°C	11.9
Viscosity Index (VI)	172	
Pour Point (°C)	-42	
Flash Point (°C)	236	
Sulphated Ash (%)	0.8	

#### Environmental Protection & Safety Precautions

Do not pour used surplus oil down sewers or drains. Dispose of used or surplus oil at your nearest oil recycling bank. Dispose of empty packs in a responsible manner. Store container in an upright position and secure when transported. Wear goggles if splashing risk. Avoid exposure to oil mist. When using oil do not eat, drink or smoke. Wash hands after use.

#### Disclaimer

This Product Information Sheet does not constitute to any extent a fitness for purpose warranty or a quality specification. It is intended to be indicative only of the general characteristics of the product(s) and may not be relied upon (in whole or in part) in substitution of nor as a supplement to any of the information and/or instructions and/or warnings set out on the product(s) and/or on any packaging and/or in the relevant Safety Data Sheet (which is available on request).

Users of a product marked "For Professional Use Only" are deemed to declare and acknowledge for themselves professional levels of skill, knowledge, competence and experience in the selection and use of such product(s).

Product Information Sheets are updated from time to time and inquiries should be made on a regular basis to ensure that this is the latest version available.