

# HIGH TECHNOLOGY LUBRICANTS FOR VOLVO VEHICLES



# TOTAL's innovation

Since 1990, the European Union has set up EURO standards which stipulate the maximum limits which should not be exceeded for polluting emissions by heavy goods vehicles of over 3.5 T. The EURO 4 standard has been compulsory since October 2006 and EURO 5 will come into effect as from October 2009.



## AIM:

To meet the increasingly stringent requirements of the latest Euro norms by reduction of polluting emissions.

### VOLVO's CHOICES in terms of

#### SCR (Selective Catalyst Reduction)

System which enables conversion (through injection of Ad-Blue® within the exhaust system) of polluting emissions such as nitrous oxides (NOx) into non polluting products (nitrogen and water vapour).



#### Specifications

Volvo developed its own specifications VDS, VDS-2, VDS-3, VDS-4.



### THE TOTAL OFFER

#### AdBlue® (an aqueous solution of synthetic urea)

- Available in the AS 24 and TOTAL network of service stations.
- From Total Lubricants in bulk, IBC (1000L), 208-litre drums, 10-litre cans.

#### Lubricants

A range of products suiting the requirements of Volvo specifications.

### The added-value of TOTAL's Fuel Economy (FE) technology:

- **Fuel economy:** on average 1 litre per per 100 km or 3 %\* certified by independent organizations such as MILLBROOK, UTAC and TUV - in august 2009 on products (1) and (2).
- **A reduction in CO<sub>2</sub> emissions** into the atmosphere of 3 tonnes per year per truck (based on an economy of 1 litre per 100 km, on a truck covering 120 000 km a year and whose average fuel consumption is 33 litres per 100 km). N.B. 1 litre of fuel = 2.7 kg of CO<sub>2</sub>.

(\* ) if combined use of FE engine and transmission lubricants



Fuel consumption



Standard Lubricant Fuel Economy Lubricant

-3%

### PRODUCTS

ENGINE OILS

NEW

RUBIA TIR 7900 FE 10W-30

NEW

RUBIA TIR 8900 FE 10W-30 (1) TÜVRheinland® Precisely Right.

Fuel Economy lubricants

RUBIA TIR 9200 FE 5W-30

RUBIA TIR 8600 FE 10W-30

RUBIA TIR 7200 FE 15W30

Standard lubricants

RUBIA TIR 8900 10W-40

RUBIA TIR 8600 10W-40

RUBIA TIR 7400 15W-40

TRANSMISSION OILS

NEW

(2) Transmission XS FE 75W-80 TÜVRheinland® Precisely Right.

Manual gearboxes & Transfer box

Transmission XSV FE 75W-80

RUBIA S 40

Automatic gearboxes

Fluide XLD FE

Fluide G3

Axles

Transmission BM 75W-90

Transmission Syn FE 75W-90

Transmission RS FE 80W-140

Transmission TM 85W-140

SPECIALTIES PRODUCTS

Power take-off

RUBIA S 40

NEW

Fluide XLD FE

Power steering

Fluide G3

Cabin lifting

AEROHYDRAULIC 520

Clutch

HBF 4

# TOTAL lubricants proposed for VOLVO vehicles

Specific features	Specifications	Oil change interval	Cold starting	Oxidation resistance & anti-wear protection*	Composition	Applications
	ACEA E9/E7 • VDS-4	* * * *	* * *	* *	Semi synthetic	• Latest generation lubricant which is both FE and Low SAPS which is suited for all the engines equipped with Particulates Filters (standard drain intervals).
	ACEA E6/E7 • VDS-3	* * *	* * *	* * *	Synthetic technology	• Latest generation lubricant which is both Fuel Economy (FE) and Low SAPS. • Suitable for all engines (Euro 5 and previous) equipped or not with a Particulates Filter.
	ACEA E4/E5/E7 • VDS-3	* * *	* * * *	* * * *	100% synthetic	• Particularly recommended for lubrication of the latest generation of Diesel engines developed by the European constructors • Meets the requirements of the most demanding applications.
	ACEA E4 • VDS-3	* * *	* * *	* * *	Synthetic technology	• New generation lubricant for all types of heavy duty Diesel engines, whether turbocharged or not. • Facilitates cold starting at low temperature.
	ACEA E5/E7 • VDS-3	* * *	* *	* *	Mineral	• Suitable for Euro 4 engines and previous whether turbocharged or not.
	ACEA E6/E7 • VDS-3	* * *	* * *	* * *	Synthetic technology	• Adapted for every type of engine (Euro 5 and previous) equipped with a Particulates Filter.
	ACEA E4/E5/E7 • VDS-3	* * *	* * *	* * *	Synthetic technology	• Suitable for all EURO 4 engines except MAN and DAF, Euro 3 and previous engines.
	ACEA E5/E7 • VDS-3	* * *	* *	* *	Mineral	• Complies with Euro 4 engines (except MAN and DAF) and previous technologies.
				*(only for transmissions and specialties products)		
	ZF TE ML 02L Level VOLVO 97307	* * * *	* * * *	* * * *	Synthetic based technology	• Fulfills the requirements for Volvo manual gearboxes for extended drain intervals (up to 400 000 km) manual gearboxes of VOLVO vehicles • Approved for extended drain intervals on ZF and EATON gearboxes • Meets the requirements of specifications VOLVO 97307 (pending approval for 400 000 km drain interval).
	VOLVO 97307 EATON Europe	* * * *	* * * *	* * *	Synthetic technology	• Developed specifically for extended drain intervals for Volvo manual and automated manual transmissions • Approved for EATON gearboxes.
	API CF/ACEA E2	* *	*	* *	Mineral	• Suitable for all types of gearboxes for standard oil-change intervals.
	VOLVO 97341 • Allison C4 Dexron® III H, level TES 295	* * * *	* * * *	* * * *	Synthetic based technology	• Top of the range fluid for Allison, ZF and Voith automatic gearboxes guaranteeing very extended oil drain intervals.
	VOLVO 97341 (pending) Dexron® III G • Allison C4	* * *	* *	* * *	Synthetic technology	• Suitable for all automatic gearboxes applications (MB, ZF, Voith, Allison) in commercial vehicles and buses as well as couplers and hydraulic converters.
	API GL-5 • VOLVO 97312	* * * *	* * *	* * * *	Synthetic	• Suitable for hypoid differentials and heavy duty gear trains.
	API GL-4 / GL-5 • MT-1	* * * *	* * *	* * * *	Synthetic	• Recommended for synchronised or non-synchronised manual gearboxes, axles and reduction gears.
	API GL-5	* * *	* * *	* * *	Semi synthetic	• High performance multigrade oil designed for the lubrication of severely loaded hypoid axles and final reduction.
	API GL-5	* *	*	* *		• Lubricant suitable for axles as well as gearboxes and transfer boxes • Specially recommended for highly loaded hypoid gears.
	ACEA E2		Mineral			
	VOLVO 97341 • Allison C4 Dexron® III H		Synthetic based technology			
	VOLVO 97341 Dexron® III G • Allison C4		Synthetic technology			
	MIL-H-5606					
	ISO 4925, SAEJ 1704, DOT 4		Synthetic			



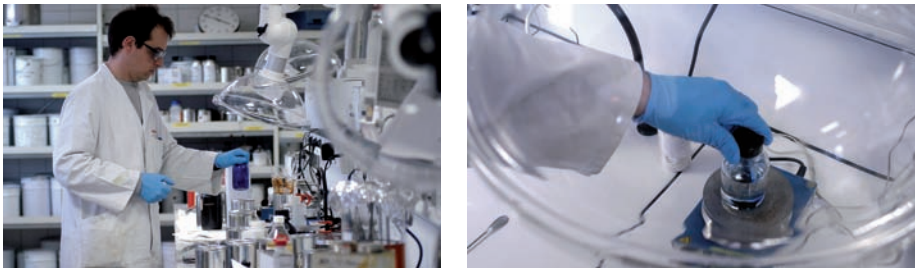
# TOTAL expertise

## Your requirements:

- To recommend lubricants tailored to your customers' expectations.
- To maintain a competitive advantage.
- To retain your customers and increase your additional sales.
- To train and motivate your workshop and sales teams to promote lubricants.

## Our responses:

**Product innovations:** a **RESEARCH CENTRE** devoted to developing the latest generation lubricants.



**Local sales and technical teams, listening to your everyday needs:**

- **RECOMMENDATION** of the products best-suited to your requirements.
- Provision of **MADE-TO-MEASURE TOOLS** to promote your sales, train and motivate your teams.

**Efficient logistics thanks to the CALL CENTRES:**

If you would like to find out how we can find the best lubricant solution for you, please call **01977636301** or visit [www.lubricants.total.com](http://www.lubricants.total.com)

**Innovative services:**

- **ANAC:** a preventive maintenance tool for your fleet thanks to expert and personalised diagnostics of your engines and drive train, using samples of the oils in service.  
[www.anac-diagnosis.com](http://www.anac-diagnosis.com)
- **LUBCONSULT:** on-line management of constructor's recommendations and your lubrication schedules.  
[www.lubconsult.total.com](http://www.lubconsult.total.com)
- **VISI STOCK:** stock control system (automated level sensing and re-supply).
- **PARCK:** decision-making support software to optimise management of your fleet.

[www.lubricants.total.com](http://www.lubricants.total.com)



You know where to turn **TOTAL**