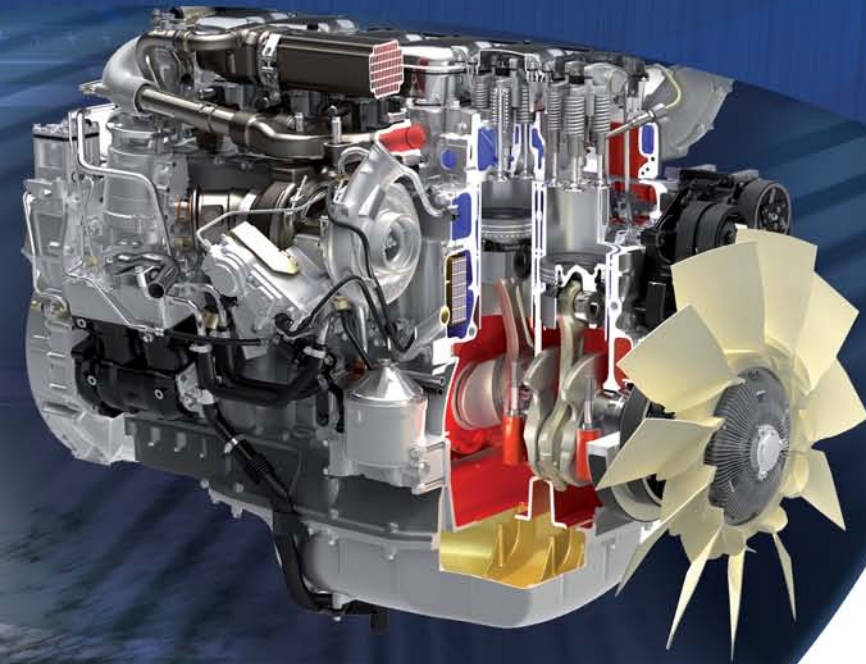


# HIGH TECHNOLOGY LUBRICANTS FOR SCANIA VEHICLES



**TOTAL**

# TOTAL, an innovative partner

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

Since 1990, the European Union has set up EURO standards which specify 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.

## SCANIA TECHNOLOGIES

### ■ Priority on EGR system:

- EGR system (mainly used on DC9 and DC12 Scania engines). EGR (Exhaust Gas Recirculation) works by recirculating a portion of an engine's exhaust gas back to the engine cylinders. It helps decrease the levels of nitrogen oxides (NOx emissions) but at the same time it increases particulates (very aggressive soot formation).



DC9 5 cylinder engine



## TOTAL'S OFFER

### ■ A complete range of lubricants suitable for EGR

EGR calls for those lubricants which have good dispersant capacity and can prevent the plugging of particulate filters. For Euro 5 and previous engines Scania requires lubricants homologated to:

- ACEA E7 in grade SAE xxW-40 (except if there 's a particulates filter on a Euro 5 engine)
- LDF-2 or LDF for extended oil drain interval
- Scania Low Ash if there is a particulate filter  
This is a type of Low SAPS lubricant (with low content in sulphated ashes, phosphorus and sulphur) which helps avoid the plugging of the particulates filter and guarantees high levels of cleanliness.

### ■ The only exception: the SCR system only for DC 16 (V8) engines

- 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).



### ■ AdBlue® 'an aqueous solution of synthetic urea

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



# TOTAL lubricants proposed for SCANIA vehicles

**Fuel economy:** on average 1 litre per per 100 km or 3%\* certified by independent organizations such as MILLBROOK, UTAC and TÜV (in 2009).

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



## TRANSMISSIONS

Applications	Product's name	Specific features	Specifications
Manual gearboxes	SCANIA	TRANSMISSION SYN FE 75W-90 →	STO 1:0
		TRANSMISSION XPM 80W-90	
		TRANSMISSION BM 75W-90 →	
	ZF	RUBIA S 30	ZF TE-ML 02C
Automatic	ALLISON	FLUIDE XLD FE <b>new</b> →	Allison C4, TES 389 Meets the requirements of Allison TES 295, Dexron® IIIH
		FLUIDE G3	Meets the requirements of Dexron® III G, Allison C4
	ZF	FLUIDE XLD FE <b>new</b> →	Meets the requirements of ZF 14C Approved for ZF TE-ML 04D, 14B, 16L & 17C and VOITH H55.6336
SCANIA Retarder	Type 1	FLUIDE G3	Meets the requirements of Dexron® III G, Allison C4 Dexron® IIIH, Allison C4
	Type 2	FLUIDE XLD FE <b>new</b> →	
SCANIA axles		TRANSMISSION SYN FE 75W-140 →	STO 1:0
		TRANSMISSION RS 85W-140	
		TRANSMISSION RS FE 80W-140 →	
ZF axles for buses		TRANSMISSION RS FE 80W-90 →	ZF TE-ML 12E
		TRANSMISSION RS FE 80W-140 →	

## SPECIALTIES PRODUCTS

Applications	Product's name	Homologations
Clutch	HBF 4	DOT 4
Cabin	FLUIDE ATX	ATF Dexron® II ATF Dexron® III
	FLUIDE G3	
Power steering	FLUIDE CC	ATF Type A suffixe A ATF Dexron® II
	FLUIDE ATX	

### ENGINE WITHOUT DPF (diesel particulate filter)

Norms	Profile of maintenance	Products	Specific features	Specifications ACEA	Specifications SCANIA
Euro 5	Extended oil drain interval	RUBIA TIR 8600 10W-40		E4/E7	LDF-2
		RUBIA TIR 9200 FE 5W-30 →	E4/E7	LDF	
	Standard oil drain interval	RUBIA TIR 7400 SC 15W-40		E5/E7	LDF
<b>new</b> RUBIA CITY & ROAD 10W-40 →		E6/E7	Scania Low Ash		

Norms	Profile of maintenance	Products	Specific features	Specifications ACEA	Specifications SCANIA
Euro 4	Extended oil drain interval	RUBIA TIR 8600 10W-40		E4/E7	LDF-2
		RUBIA TIR 9200 FE 5W-30 →	E4/E7	LDF	
	Standard oil drain interval	RUBIA TIR 7400 SC 15W-40		E5/E7	LDF
		<b>new</b> RUBIA CITY & ROAD 10W-40 →	E6/E7	Scania Low Ash	
		RUBIA TIR 8900 10W-40 →	E6/E7		
RUBIA TIR 7400 15W-40		E5/E7			

Norms	Profile of maintenance	Products	Specific features	Specifications ACEA	Specifications SCANIA
Euro 3	Extended oil drain interval	RUBIA TIR 8600 10W-40		E4/E7	LDF-2
		RUBIA TIR 7400 SC 15W-40		E5/E7	LDF
		RUBIA TIR 9200 FE 5W-30 →	E4/E7	LDF	
	Standard oil drain interval	<b>new</b> RUBIA CITY & ROAD 10W-40 →	E6/E7	Scania Low Ash	
		RUBIA TIR 8900 10W-40 →	E6/E7		
RUBIA TIR 7400 15W-40		E5/E7			

### ENGINE WITH DPF (diesel particulate filter)

Norms	Profile of maintenance	Products	Specific features	Specifications ACEA	Specifications SCANIA
Euro 5	Extended oil drain interval	<b>new</b> RUBIA CITY & ROAD 10W-40 →			Scania Low Ash

# 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 preventative 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**