

TECHNICAL BULLETIN



MODEL/DERIVATIVE:
All Vehicles

Bulletin N°: 0016
CDS. ref: L8858bu
Issue: 1
Date: 03.07.03

AFFECTED RANGE:
All derivatives

PROBLEM:
RECOMMENDED CASTROL LUBRICANTS AND FLUIDS IN SERVICE

CAUSE:
Approved Service Lubricants and fluids under the Castrol / Land Rover agreement

ACTION:

Land Rover's long-term strategy for lubricants and fluids is to further develop the already strong relationship we have with Castrol. Castrol have the experience and technology to support Land Rover as we continue to improve the performance of our vehicles. This is an exciting opportunity and as partners we will be able to create a strong platform for the continued growth and development of the business.

Please find attached a comprehensive table of lubricants and fluids currently recommended for all Land Rover vehicles. The table provides supplier details, technical specifications and viscosity for all vehicles. Castrol products **MUST** be used where possible.

CAUTION: *Always use the recommended lubricant or fluid; if these products are not available then the engineering specification for the specific unit must be adhered to at all times.*

CAUTION: *Castrol SAF-X0 MUST NOT be used in Discovery or Defender Axles and Transfer Boxes due to the incompatibility of the oil seals; also it MUST NOT be used in Freelander manual transmissions due to gear selection quality concerns. Refer to the attached table for the correct lubricant for the unit.*

Land Rover is constantly working with Castrol to ensure that a complete range of lubricants and fluids, where possible, will be available in the near future.

PARTS INFORMATION:
Not applicable

WARRANTY CLAIMS:
Not applicable

Land Rover lubricants and fluids specification chart

	Petrol Engines							Diesel Engines							Manual Transmission				Auto Transmissions			
Major Unit	K Series 1.8	KV6 2.5	NAS KV6 2.5	P4 2.5	T16 2.0	RV8 3.5 3.9 4.2 4.0 4.6	M62 V8 4.4	L Series	Gemini Tdi 2.5	VM 2.5	Storm Td5 2.5	BMW M47 2.0	BMW M51 2.5	Td6 3.0	PG1	Getrag 283	LT77S	R380	Jatco	ZF 4HP22 ZF 4HP24	GM 5L40 - E	ZF 5HP24
Recommended Lubricants	Castrol engine oils meeting the viscosity and specifications below							Castrol engine oils meeting the viscosity and specifications below							Texaco MTF 94 Only STC 9158 (1Ltr) STC 9157 (5Ltr)	Texaco MTF 94 Only STC 9158 (1Ltr) STC 9157 (5Ltr)	Castrol TQ Dexron III	Texaco MTF 94 Only STC 9158 (1Ltr) STC 9157 (5Ltr)	Texaco ATF N402 Only STC 53015	Castrol TQ Dexron III or Transmax Z	Texaco ETL 7045 E Only STC 4862	Esso ATF LT71141 Only STC 4863
Viscosity	(10w-30) 10w-40	10w-40	0w-40 5w-40 10w-40	15w-40 10w-40	(10w-30) 10w-40	(10w-30) 10w-40	5w-30/40 10w-30/40	10w-40 (15w-40)	10w-40 (15w 40)	15w-40 (10w-40)	5w30	5w-30 (10w-40)	5w-30 (10w-40)	5w-30/40 10w-30/40	na	na	na	na	na	na	na	na
Engineering Specification	ACEA A2 (or A3) (ACEA A1 5w-30 can be used)	ACEA A2	ACEA A3	ACEA A2 (or A3)	ACEA A2	ACEA A2	ACEA A3	ACEA B2 (or B3)	ACEA B2 (or B3)	ACEA A2	ACEA A1+B1 (use ACEA A3+B3 if A1+B1 unavailable)	ACEA A3+B3	ACEA A3+B3	ACEA A3+B3	Texaco MTF 94 Only	Texaco MTF 94 Only	ATF Dexron IID	Texaco MTF 94 Only	Texaco ATF N402 Only	Dexron IID or III	Texaco ETL 7045 E Only	Esso ATF LT71141 Only
Freelander (LN)	●	●	●					●				●			●	●			●			
Defender (LD)				●					●		●							●				
Discovery I (LJ)					●	●			●								●	●		●		
Discovery II (LT)						●					●							●		●		
Range Rover Classic (LH)						●			●	●							●	●		●		
Range Rover (LP)						●							●					●		●		
New Range Rover (LM)							●							●							●	●

NOTE: Castrol SAF-X0 MUST NOT be used in Discovery or Defender Axles and Transfer Boxes due to the incompatibility of the oil seals; also it MUST NOT be used in Freelander manual transmissions due to gear selection quality concerns.

Land Rover lubricants and fluids specification chart

	Transfer / IRD				Axles & Diffs.							PAS & ACE			Coolant		
Major Unit	LT230 Transfer Box	IRD	Borg Warner	NVG	Diff	Axles & Diffs	Axles & Diffs	Axles & Diffs	Propshaft	Swivel Hubs	Swivel Hubs	PAS	PAS	ACE	Coolant	Coolant	Coolant
Recommended Lubricants	Castrol Syntrox 75w90	Castrol SAF-XO	Castrol TQ Dextron III	Castrol BOT 26 FMB1 Only STC 4861	Castrol EPX 80W-90	Castrol EPX 80W-90	Castrol Syntrox 75w90	Castrol SAF-XO	Castrol 3 EP (TIA 500010)	Castrol EPX 80W-90	Texaco EP00 Only STC 3435	Castrol TQ Dextron III	Texaco Cold climate PSF 14315 Only STC 50519 (1ltr) STC 50517 (25Ltr)	Texaco Cold climate PSF 14315 Only STC 50519 (1ltr) STC 50517 (25Ltr)	RTC 5779A	Castrol Anti-freeze SF (STC 50529 1ltr, STC 50530 5ltr, STC 50524 25ltr)	Castrol Anti-freeze NF (STC 50558 1ltr, STC 50559 5ltr)
Viscosity	75w-90	75w-90	na	na	80w-90	85w-90	75w-90	na	na	85w-90	na	na	na	na	na	na	na
Engineering Specification	API GL5+MT1 (Texaco Multigear 75w-90R)	Synthetic GL5 + MT1	Dexron II D or III	Castrol BOT 26 FMB1 Only	API GL5	API GL5	API GL5+MT1 (Texaco Multigear 75w-90R)	SAF-XO	Castrol 3 EP	API GL5	Texaco EP00 Only	ATF Dextron III	Texaco Cold climate PSF 14315 Only	Texaco Cold climate PSF 14315 Only	Dow 007/400f	Texaco XLC	Texaco AFC
Freelander (LN)		●			●							●			up to 01 MY	01 MY onwards	
Defender (LD)	●					●				up to 98 MY	●	●			up to 99 MY	99 MY onwards	
Discovery I (LJ)	●					●				●		●			●		
Discovery II (LT)	●						●						●	●		●	
Range Rover Classic (LH)	●						●			●		●			●		
Range Rover (LP)			●				●					●			up to XA 159810	XA 159811 onwards	
New Range Rover (LM)				●				●	●				●				●

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