



Technical Journal

TITLE:

Transmission and All Wheel Drive (AWD) Lubricants

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FUNC GROUP: 4300	FUNC DESC: Gearbox	YEAR 2014	MONTH 03	DAY 20
Page 1 of 4				

“Right first time in Time”

Attachment

File Name	File Size
Attachment TJ16773v5.pdf	0.0679 MB

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
124							2008-9999		0000001-9999999	0-0
134							2011-9999		-	0-0
135							2008-2010		0000001-9999999	0-0
136							2008-9999		0000001-9999999	0-0
155							2015-9999		-	0-0
156							2010-9999		-	0-0
184							1999-2006		0000001-9999999	0-0
275							2003-9999		0000001-9999999	0-0
285							2001-2007		0000001-9999999	0-0
295							2001-2007		0000001-9999999	0-0
384							2001-2009		0000001-9999999	0-0
533							2007-9999		0000001-9999999	0-0
542							2006-9999		0000001-9999999	0-0
544							2004-9999		0000001-9999999	0-0
545							2005-9999		0000001-9999999	0-0
644							2000-2004		0000001-9999999	0-0
645							2000-2004		0000001-9999999	0-0



Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
872							1998-2002		0000001-9999999	0-0
873							1998-2005		0000001-9999999	0-0
874							1998-2000		0000001-9999999	0-0
875							1998-2000		0000001-9999999	0-0
876							1998-2000		0000001-9999999	0-0

CSC Customer Symptom Codes

Code	Description
1C	Administrative and Factory scheduled maintenance/Administrative and Factory scheduled maintenance

DTC Diagnostic Trouble Codes

Rows beginning with * are modified

Note! If using a printed copy of this Technical Journal, first check for the latest online version.

Text

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NOTE! THIS DOCUMENT SUPERSEDES THE PREVIOUS TECHNICAL JOURNAL 16773 DATED 12-13-2012. AW-1 should be used in the Model Year (MY) 2015- P3 vehicles (TG81 8-speed transmission). PLEASE UPDATE YOUR FILES.

DESCRIPTION:

Attached is a list of transmission and AWD lubricants for all models.

SERVICE:

None.

To view TJ attachment continue to next page. This TJ has 1 attachment.

Volvo Car Customer Service

TJ Instruction

TJ No 16773

Date

March-14
Issue 05

Title

Transmission and All Wheel Drive (AWD) Lubricants

***New info in red text.**

*Part numbers are valid at the time of the writing of this Technical Journal

Application	Note	Part Number
<ul style="list-style-type: none"> • 6 Speed Automatic Transmissions <ul style="list-style-type: none"> -TF80-SC in MY 2011- S60/S80/XC70/XC60 -TF80-SC in MY 2013- XC90 -TG81 in MY 2015 P3 vehicles 	<p>AW-1</p> <p>The only oil approved for 6 speed and 8 speed automatic transmissions in the models shown to the left is AW-1. None of the other fluids available on the market have been evaluated by Volvo to meet the requirements of these specific transmissions regarding: shift quality, slipping lock-up functionality and transmission durability.</p>	<p>31256774 (1 liter) 31256775 (4 liter)</p>
<ul style="list-style-type: none"> • 5 and 6 Speed Automatic Transmissions <ul style="list-style-type: none"> -AW55 -TF80-SC in MY 2005- XC90, 2006-2009 S60R, 2006-2007 V70R, 2007-2010 S80, 2008-2010 V70/XC70, 2010 XC60. <p>This fluid is also recommended to address two complaints on the AW 50-42:</p> <ul style="list-style-type: none"> •Harsh Lock-Up engagement/disengagement (SB 43-0029) •Squeaking noise during low speed turns (TNN 43-11) 	<p>JWS 3309</p> <p>The only oil approved for the 5 and 6 speed automatic transmissions (see listed vehicle to the left) is JWS 3309. None of the other fluids available on the market have been evaluated by Volvo to meet the requirements of these specific transmissions regarding: shift quality, slipping lock-up functionality and transmission durability.</p>	<p>1161540 (1 liter) 1161640 (4 liter)</p>
<ul style="list-style-type: none"> • 4 Speed Automatic Transmissions <ul style="list-style-type: none"> -GM4T65EV -AW50-42 -AW30-40/43 -AW70/71/72 -ZF22 	<p>Dexron III G or III H</p>	<p>1161621 (4 liter)</p>

VOLVO

<ul style="list-style-type: none"> • 5 and 6 Speed Manual Transmissions <ul style="list-style-type: none"> -M56 -M66 • Chain Housing <ul style="list-style-type: none"> -XC90 T6 	<p>API GL-4, Synthetic This oil can be used in any M56 or M66 up to chassis numbers listed for BOT350 oil (below).</p>	1161745 (1liter)
<ul style="list-style-type: none"> • 5 and 6 Speed Manual Transmissions <ul style="list-style-type: none"> -M56 -M66 	<p>Low friction oil: BOT 350 M3. API GL-4, SAE 75W This oil is backwards compatible to 1996, but the oil above can also be used before the chassis numbers below. Factory fill from 2008W46 (see model type and chassis below) is Castrol BOT 350 M3. S60 (384) chassis 732730- S40 (544) chassis 430001- C70 (542) chassis 350045- V50 (545) chassis 447003- C30 (533) chassis 120002-</p>	<p>31280771 (1 liter) 31280772 (4 liter)</p>
<ul style="list-style-type: none"> • Angle Gears (All) 	API GL-5, BOT	31259380 (1 liter)
<ul style="list-style-type: none"> • AOC (Active On-Demand Coupling) 	Specific oil for the AWD clutch	31325136 (300 ml)
<ul style="list-style-type: none"> • Rear Differential (200/700/900 with optional limited slip) 	API GL-5, with limited slip additive	1161619 (1 liter)
<ul style="list-style-type: none"> • Rear Differential (All Others) 	API GL-5, low friction	1161620 (1 liter)
<ul style="list-style-type: none"> • Cleaning Manual Transmission Input Shafts 	Rust penetrator	1161659 (200 ml)
<ul style="list-style-type: none"> • Lubricating Manual Transmission Input Shafts 	Sprayable PFPE grease	30759651 (150 ml) 1161614 (200 ml)
<ul style="list-style-type: none"> • Lubricating AWD spline interface -splines between transmission and angle gear 	Lithium grease with PAO base	1161748 (10 ml)