

MANDATORY

SERVICE BULLETIN

DATE: September 29, 2010 Service Bulletin No. 543C
(Supersedes Service Bulletin No. 543B)
Engineering Aspects are
FAA (DER) Approved

SUBJECT: Oil Filter Converter Plate Gasket Replacement

MODELS AFFECTED: All Lycoming:
O-320-H1AD, -H1BD, -H2AD, -H2BD, -H3AD, -H3BD;
(L)O-360-A1AD, -A1F6D, -A1G6D, -A1LD, -A3AD, -A4AD, -A5AD, -E1A6D;
IO-360-A1B6D, -A1D6D, -A3B6D, -A3D6D, -C1E6D, -J1AD, -J1A6D;
(L)TO-360-A1A6D, -C1A6D, -E1A6D, -F1A6D;
TIO-360-C1A6D;
(L)HIO-360-E1AD, -E1BD, -F1AD;
O-540-H1A5D, -H1B5D, -H2A5D, -H2B5D, -J1A5D, -J1B5D, -J1C5D, -J1D5D, -J2A5D, -J2B5D, -J2C5D, -J2D5D, -J3A5D, -J3C5D, -L3C5D;
IO-540-C4D5D, -K1A5D, -K1B5D, -K1E5D, -K1F5D, -K1G5D, -K1J5D, -L1A5D, -L1B5D, -M1A5D, -M1B5D, -M2A5D, -T4A5D, -T4B5D, -T4C5D, -U1A5D, -U1B5D, -V4A5D, -W1A5D, -W3A5D;
(L)TIO-540-K1AD, -S1AD, -AA1AD, -AB1AD, -AB1BD, -F2BD, -J2BD, -N2BD, -R2AD, -T2AD, -V2AD;
AEIO-540-L1B5D;
TIO-541-E Series; TIGO-541-D1A, -D1B, -E1A;
IO-720-A1BD, -B1BD, -C1BD, -D1BD, -D1CD.

SERVICE BULLETIN NO. 543 DOES NOT AFFECT:

- 1. ENGINES SHIPPED AFTER OCTOBER 4, 2000.**
- 2. ENGINES SHIPPED BEFORE APRIL 1, 1999 UNLESS A REPLACEMENT OIL FILTER CONVERTER PLATE GASKET P/N LW-13388 WAS INSTALLED AFTER APRIL 1, 1999.**
- 3. ENGINES THAT HAVE OIL FILTER CONVERTER PLATE GASKET P/N 06B23072 INSTALLED.**

SERVICE BULLETIN NO. 543 AFFECTS THE LYCOMING ENGINES LISTED ABOVE ONLY IF ANY OF THE FOLLOWING APPLY:

- 1. THEY WERE SHIPPED FROM THE FACTORY BETWEEN APRIL 1, 1999, AND OCTOBER 4, 2000 AND HAVE NOT COMPLIED WITH ITEM 3. ABOVE.**



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2. **THEY HAVE HAD THE OIL FILTER CONVERTER PLATE GASKET FIELD REPLACED AFTER APRIL 1, 1999, WITH P/N LW-13388.**
3. **THEY HAVE HAD THE OIL FILTER CONVERTER PLATE FIELD REPLACED AFTER APRIL 1, 1999, WITH KIT P/N LW-13904.**

TIME OF COMPLIANCE: At the next 50 hour oil change unless gasket P/N 06B23072 has previously been installed.

This Service Bulletin has been released because the gasket, P/N LW-13388, in the oil filter converter plate must be replaced with a new gasket, P/N 06B23072. This gasket replacement is necessary because some gaskets, P/N LW-13388, have been made of incorrect material. As a result of the defective material, the gasket can become pressed out from its seat and cause oil leakage between the converter plate and accessory housing.

To prevent and/or correct this problem (and comply with this Service Bulletin), there are two options:

- Option 1** Replace only the gasket, P/N **LW-13388** with the new gasket, P/N **06B23072** and mark the oil filter converter plate with the number 543. (To replace the gasket, refer to the latest revision of Service Instruction No. 1453.)
- Option 2** Purchase and install kit, P/N **54E23093** (supersedes kit, P/N 54E23073 - no longer available). Kit, P/N **54E23093**, includes an oil filter converter plate/gasket assembly, P/N **54E23092**, that contains the new replacement gasket, P/N **06B23072**. The new oil filter converter plate/gasket assembly, P/N 54E23092, is pre-stamped with the number 543 to show compliance with this Service Bulletin. To install the new oil filter converter plate with the new gasket, refer to the latest revision of Service Instruction No. 1453.

NOTE

When changing the oil and oil filter on O-320-H series engine models, you can use the oil filter kit, P/N **05K23074**. This kit contains the oil filter converter plate kit, P/N **54E23093**, and has the new required gasket P/N **06B23072**.

NOTE

During gasket replacement, the gasket, P/N **LW-13388**, is to be removed, discarded, and not ever used again.

When the new gasket, P/N **06B23072**, has been installed, make an entry in the engine logbook as a record of compliance with this Service Bulletin. If the gasket, LW-13388, has already been replaced with the gasket, P/N 06B23072, under different circumstances, make an entry in the engine logbook noting that the gasket, P/N LW-13388, has been removed and replaced with the new gasket, P/N 06B23072. Make sure that the oil filter converter plate is either stamped or marked with the number 543 to show compliance with this Service Bulletin.

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