Piper™
THE NEW PIPER AIRCRAFT, INC.

VSP - 119

DATED: April 19, 1999 (S/M)

VENDOR SERVICE PUBLICATION

TO: All Piper Domestic and International Distributors, Authorized Piper Service Centers and publication subscribers.

SUBJECT: Distribution of: **TEXTRON LYCOMING SB 480C, "I. Oil and Filter Change and Screen Cleaning, II. Oil Filter/Screen Content Inspection"**

MODELS AFFECTED:	**SERIAL NUMBERS AFFECTED:**
All	All aircraft with Textron Lycoming Piston Engines

Note:

A guide to the Models and Serial Numbers Affected is listed on the next few pages. This should be used as a reference to determine applicability, however, if your serial number or model is not listed here, consult with Textron Lycoming using the model and serial number of the engine.

COMPLIANCE TIME: In accordance with the attached TEXTRON LYCOMING Service Bulletin SB 480C, "I. Oil and Filter Change and Screen Cleaning, II. Oil Filter/Screen Content Inspection". *Check the attached publication for compliance time.*

PURPOSE: To provide distribution of TEXTRON LYCOMING Service Bulletin SB 480C, "I. Oil and Filter Change and Screen Cleaning, II. Oil Filter/Screen Content Inspection".

Caution:

Failure to comply with Textron Lycoming Service Bulletin SB 480C may result in the failure to detect engine oil contamination of a detrimental nature. Significant engine oil contamination may lead to premature failure or wear of engine components.

(over)

ATA: 7250

Effectivity Reference Guide

MODELS AFFECTED:	SERIAL NUMBERS AFFECTED:
E-2 Cub	11 through 363
J-2 Cub	500 through 1206
J-3 Cub	1125 through 23180, G-1 through G-253, 2356A through 2370A, and 101C through 250C
J-4 Cub Coupe	4-400 through 4-1649
J-5 Cub Cruiser	5-1 through 5-3014
PA-11- Cub Special	11-1 through 11-1353
PA-12 Super Cruiser	12-1 through 12-4036
PA-14 Family Cruiser	14-1 through 14-523
PA-15 Vagabond	15-1 through 15-388
PA-16 Clipper	16-1 through 16-736
PA-17 Vagabond	17-1 through 17-215
PA-18/18-150 Super Cub	18-1 through 18-9004 18- 7309016 through 18-8309025
PA-18-150 Super Cub	1809001 through 1809113
PA-20 Pacer	20-1 through 20-1121
PA-22-125/135 Tripacer	22-1 through 22-2424
PA-22-108 Colt	22-8000 through 22-9848
PA-23 Apache	23-1 through 23-2046
PA-23 235 Aztec	27-505 through 27-622
PA-23-250 Aztec	27-1 through 27-4866 27-7304917 through 27-8154030
PA-24-180/250 Comanche	24-1 through 24-3687
PA-24-260 Comanche	24-3642, 24-4000 through 24-5028
PA-24-400 Comanche	26-2 through 26-148
PA-28-140 Cherokee	28-20000 through 28-7725290
PA-28-150/160/180 Cherokee	28-1 through 28-7505259 & 28-E13
PA-28-151 Warrior	28-7415001 through 28-7715314
PA-28-161 Warrior II	28-7716002 through 28-8616057 2816001 through 2816109
PA-28-161 Warrior III	2816110 through 2816119, 2842001 and up
PA-28-161 Cadet	2841001 through 2841365
PA-28-181 Archer II	28-7690001 through 28-8690056 2890001 through 2890205
PA-28-181 Archer III	2890206 through 2890231 2843001 and up
PA-28-235 Cherokee	28-10001 through 28-7710089 & 28-E11
PA-28-236 Dakota	28-7911001 through 28-8611008 2811001 through 2811050
PA-28R-180 Arrow	28R-30001 through 28R-7130013
PA-28R-200 Arrow/Arrow II	28R-35001 through 28R-7635545
PA-28R-201 Arrow III	28R-7737002 through 28R-7837317
PA-28R-201 Arrow	2837001 through 2837061 2844001 and up
PA-28RT-201 Arrow IV	28R-7918001 through 28R-8218026
PA-30-Twin Comanche	30-1 through 30-2000

Effectivity Reference Guide (Cont'd)

MODELS AFFECTED:	SERIAL NUMBERS AFFECTED:
PA-31/300/325 Navajo/Navajo CR	31-2 through 31-861 31-7300901 through 31-8312019
PA-31-350 Chieftain	31-5001 through 31-5004 31-7305005 through 31-8452021
PA-31-350 T1020	31-8253001 through 31-8553002
PA-32-260 Cherokee Six	32-1 through 32-7800008
PA-32-300 Cherokee Six	32-40000 through 32-7940290
PA-32-301 Saratoga	32-8006001 through 32-8606023 3206001 through 3206019
PA-32RT-300T Turbo Lance II	32R-7787001 through 32R-7987126
PA-32R-300 Lance	32R-7680001 through 32R-7880068
PA-32RT-300 Lance II	32R-7885001 through 32R-7985105
PA-32R-301 Saratoga SP	32R-8013001 through 32R-8613006 3213001 through 3213041
PA-32R-301 Saratoga II HP	3213029, 3213042 through 3213103 3246001 and up
PA-32R-301T Turbo Saratoga SP	32R-8029001 through 32R-8629006 3229001 through 3229003
PA-32R-301T Saratoga II TC	3257001 and up
PA-34-200 Seneca	34-7250001 through 34-7450220
PA-38-112 Tomahawk	38-78A0002 through 38-82A0124
PA-39-Twin Comanche	39-1 through 39-155
PA-44-180 Seminole	44-7995001 through 44-8195026, 4495001 through 4495013, 4496001 through 4496020,
PA-44-180T Seminole	44-8107001 through 44-8207020
PA-46-350P Malibu Mirage	4622001 through 4622200, 4636001 and up

TEXTRON Lycoming

652 Oliver Street
Williamsport, PA 17701 U.S.A.
570/323-6181

MANDATORY

SERVICE BULLETIN

DATE: February 26, 1999

Service Bulletin No. 480C
(Supersedes Service Bulletin No. 480B)
Engineering Aspects are
FAA Approved

SUBJECT: I. Oil and Filter Change and Screen Cleaning
II. Oil Filter/Screen Content Inspection

MODELS AFFECTED: All Textron Lycoming direct drive and TIGO-541 piston engines.

TIME OF COMPLIANCE: As required by subject bulletin.

Textron Lycoming recommends the following:

I. Oil and Filter Change and Screen Cleaning.

A. Within 10 hours of operation – filter replacement or pressure screen cleaning for new, remanufactured, or newly overhaul engines and for engines with any newly installed cylinders.

B. At 25 hours after the first filter replacement/screen cleaning – oil change, filter replacement or pressure screen cleaning for new, remanufactured or newly overhauled engines and for engines with any newly installed cylinders.

C. 50-Hour interval – oil change and filter replacement for all engines using full-flow filtration system (except for engine models TIO-540-AF1A and -AF1B, which require 25 hour interval changes).

D. 25-Hour interval – oil change and screen cleaning for all engines employing a pressure screen system.

E. A total of four (4) months maximum between changes for systems listed under "A", "B" and "C".

F. All turbocharged engines must be broken-in and operated with ashless dispersant oil. (Refer to latest edition of Service Instruction No. 1014.)

II. Oil Filter/Screen Content Inspection.

A. Using the following methods, check for premature or excessive engine component wear, indicated by the presence of metal particles, shavings, or flakes in the oil filter element or screens.

1. Oil Filter.

   a. Using approved method (eg., for full flow , spin-on filters, use Champion Tool CT-475 or Airwolf Cutter AFC-470), open the filter.

   b. Check condition of the oil from the filter for signs of metal contamination.

   c. Remove the paper element from the filter.

   d. Carefully unfold the paper element and examine the material trapped in the filter.

2. Pressure Screen.

   If engine employs a pressure screen system, check the screen for metal particles.

3. Oil Sump Suction Screen.

After draining oil, remove the suction screen from the oil sump and check for metal particles.

B. If examination of the used oil filter or pressure screen and the oil sump suction screen indicates abnormal metal content, additional service may be required to determine the source and possible need for corrective maintenance.

NOTE

Textron Lycoming encourages the use of spectrograph oil analysis to monitor engine component wear rates. Refer to the latest edition of Service Letter No. L171.