

# Tempest Oil Filter Application

## Application Guides

AEROSPATIALE (SOCATA)		
Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
TB9 TAMPICO	O-320-D2A	AA48110
TB10 TOBAGO	O-360-A1AD	AA48110
TB20 TRINIDAD	IO-540-C4D5D	AA48110
TB21 TRINIDAD TC	TIO-540-AB1AD	AA48110
TB-30	AEIO-540-L1B5D	AA48110
AEROSTAR (SEE PIPER)		
AMERICAN GENERAL AIRCRAFT		
Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
AG5B TIGER	O-360-A4K	AA48110
BEECH SINGLE ENGINE MODELS		
Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
E33A, F33A, F33B, F33C	IO-520B	AA48109
G-33	IO-470N	AA48110
H-35	O-470	AA48110
J, K, M-35	IO-470C	AA48110
N, P-35	IO-470N	AA48110
S35, V35, V35A, V35B	IO-520	AA48109
S35	IO-520B	AA48109
V35TC, V35A-TC, V35B-TC	TSIO-520D	AA48109
V35, V35A, V35B	IO-520B	AA48109
36, A36	IO-520B	AA48109
A36TC, B36TC	TSIO-520-UB	AA48109
B36-550	IO-550	AA48109
BEECH DEBONAIR/BONANZA		
Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
C33A, E33A, E33C	IO-520B	AA48109
BEECH MUSKETEER		
Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
SPORT III	O-320	AA48110
23	O-320	AA48110

A23-19, 19A, B19 SPORT	O-320	AA48110
A23, A23A	IO-346A	AA48109
B23, C23 SUNDOWNER	O-360	AA48110
B23	O-360A4JD	AA48103

#### BEECH SERRA

Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
24, A-24, A-24R, B-24R, C-24R	IO-360, L2A	AA48110

#### BEECH SKIPPER

Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
77	O-235-L2C	AA48110

#### BEECH BARRON

Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
C55, D55, E55, 58	IO-520C	AA48109
56TC, A56TC	TIO-541-E	AA48104
BARRON 58P, 58TC	TSIO-520-L,-W,-B	AA48108
BARRON 58C, 550	IO-550	AA48109

#### BEECH DUKE

Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
60, A60, B60	TIO-541	AA48104

#### BEECH QUEEN AIR

Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
65, 70	IGSO-480	AA48111
80, 88, B80	IGSO-540	AA48111

#### BEECH TRAVEL AIR

Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
95, B95	O-360	AA48110
B95A, D95A, E95	IO-360, L2A	AA48110

#### BEECH DUCHESS

Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
76	O-360-A1G6D LO-360-AIG6D	AA48103 AA48103

#### BEECH BELLANCA

Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
17-31A, 17-31ATC	IO-540-K	AA48110
17-31A VIKING	IO-540-K	AA48110
17-31ATC TURBO	TIO-540	AA48110

#### CESSNA SINGLE ENGINE MODELS

Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
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All Cessna aircraft modified under Cessna Service bulletin SEB-93-1 or MEB-93-1 require **Tempest Oil Filter AA48108**. The AA48109 may be

used if clearance permits installation.

150 A THRU M	O-200	AA48110
F150 F THRU M	O-200	AA48110
A150L	O-200	AA48110
FA150	O-200	AA48110
152	O-235-L2C, H2C	AA48110
172 A THRU H	O-300	AA48110
172 I THRU M	O-320	AA48110
172 N	O-320-H2AD	AA48103
172 P	O-320-D2J	AA48111
F172 D THRU H	O-300	AA48110
FR172 E THRU K	IO-360	AA48110
R172K	IO-360-K	AA48108
172R	IO-360-L2A	AA48110
172RG	O-360-F1A6	AA48110
172S	IO-360-L2A	AA48110
177	O-320	AA48110
177A, B	O-360-A1B6D	AA48103
177RG	IO-360-A1B6D	AA48103
180 A THRU J	O-470	AA48110
180Q	O-470-U	AA48110
180- S/N 53087 & UP	IO-470-U	AA48108
182 A THRU P	O-470	AA48110
182Q, R	O-470-U	AA48110
182S	IO-540-AB1A5	AA48110
A182 K THRU N	O-470	AA48110
182- S/N 67042 & UP	O-470-U	AA48108
F182- S/N 00130 & UP	O-470-U	AA48108
R 182	O-540-J3C5D	AA48103
T182	O-540-L3C5D	AA48103
TR182, FTR182	O-540-L3C5D	AA48103
185 A THRU D	IO-470, IO-520	AA48110
A185E, F	IO-470, IO-520	AA48110
185- S/N 03852 & UP	IO-520	AA48108
188	O-470, IO-520	AA48110
188- S/N 03474 & UP	IO-520-D	AA48109
T188- S/N 03474 & UP	TSIO-520	AA48109
205A	IO-470	AA48110
C-206	IO-540	AA48110
206 A THRU G	IO-520	AA48110

206H	IO-540-AC15A	AA48110
206- S/N 05030 & UP	IO-520	AA48109
206- S/N 05030 & UP	TSIO-520	AA48109
U206	IO-520	AA48110
T-206H	TIO-540-AJ1A	AA48110
TU-206	TSIO-520	AA48110
P206	IO-520	AA48110
TP-206	TSIO-520	AA48110
207	IO-520	AA48110
207- S/N 05227 & UP	IO-520	AA48109
T207- S/N 05227 & UP	TSIO-520	AA48109
T207	TSIO-520	AA48110
210	IO-470, IO-520	AA48110
210- S/N 63373-63375 & UP	IO-520	AA48109
T210- S/N 63373-63375 & UP	TSIO-520	AA48108
P210- S/N 278 & UP	TSIO-520	AA48108
T210, P210- S/N 1-277	TSIO-520	AA48110

### CESSNA TWIN ENGINE MODELS

Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
T303	TSIO-520-AE LTSIO-520-AE	AA48109 AA48109
310-C THRU Q	IO-470	AA48110
310-R	IO-520-M	AA48108
T310-P, Q, R	TSIO-520-B	AA48108
320-A	TSIO-470	AA48104
320-B, C	TSIO-470	AA48111
320-D, E, F	TSIO-520-B	AA48108
335	TSIO-520-EB	AA48109
336	IO-360	AA48110
337	IO-360	AA48110
P337, P337H	TSIO-360	AA48108
T337H	TSIO-360-H	AA48108
340	TSIO-520-K	AA48108
340A	TSIO-520-N, NB	AA48109
401/402	TSIO-520E	AA48108
402C	TSIO-520-VB	AA48109
404	GTSIO-520-M	AA48111
411- S/N 000 THRU 0126	GTSIO-520-C	AA48104
411- S/N 0127 & UP	GTSIO-520-C	AA48111
414, 414A	TSIO-520-J, N	AA48108

421-A, B	GTSIO-520-D, H	AA48111
421-C- S/N 1017 THRU 1404	GTSIO-520-L, N	AA48109
<b>RILEY CONVERSION</b>		
Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
310	TIO-540-N2BD LTIO-540-N2BD	AA48103 AA48103
<b>GULFSTREAM AMERICAN SINGLE ENGINE MODELS</b>		
Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
AA-1, 1A, 1B, 1B TRAINER, TR	O-235	AA48110
A1C LYNX, T-CAT	O-235-L	AA48110
AA-5 TRAVELER	O-320-E	AA48110
AA-5A CHEETAH	O-320-E	AA48110
AA-5B TIGER	O-360-A4K	AA48110
COUGAR	O-320-D	AA48110
<b>COMMANDER SINGLE ENGINE MODELS</b>		
Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
112, 112-A	IO-360-C, L2A	AA48110
112-TC	TO-360-C1A6D	AA48103
114	IO-540-T4A5D	AA48103
<b>COMMANDER TWIN ENGINE MODELS</b>		
Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
500-B, 500-U	IO-540	AA48110
700	TIO-540-R2AD	AA48103
<b>HELIO AIRCRAFT</b>		
Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
HELIO 700	TIO-540-J2BD	AA48103
<b>MAULE</b>		
Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
M5-180-C, MX7-180	O-360-C, C1F	AA48110
M5-210-C	IO-360-D, L2A	
M5-210-TC	TO-360-C1A6D	AA48103
M5-235-C, M6-235, M7-235	O-540-J1A5D	AA48103
MX-7-235	O-540-WIA5D	AA48103
<b>MOONEY AIRCRAFT</b>		
Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
M20	O-320	AA48110
M20-A, B, MARK 21		
M20-D MASTER	O-360	AA48110
M20-C RANGER		
M20-G STATESMAN	O-360	AA48110

M20-E CHAPARRAL	IO-360, L2A	AA48110
M20-F EXECUTIVE	IO-360, L2A	AA48110
M20-J-201	IO-360-A3B6D, L2A	AA48103
M20-K-231	TSIO-360-G, LB	AA48108
M20-M-TLS	TIO-540-AFIA, B	AA48110
M20-R	IO-550	AA48108
M22 MUSTANG	TIO-541	AA48110
M20-K-252 TSE	TSIO-360-MB1	AA48108

### PIPER CUB

Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
PA-18-150	O-320	AA48110

### PIPER TRI-PACER

Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
PA-22-150	O-320	AA48110
PA-22-160	O-320	AA48110

### PIPER COMMANCHE

Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
PA-24-180	O-360	AA48110
PA-24-250	O-540, IO-540	AA48110
PA-24-B, PA-24-C-260	O-540, IO-540	AA48110
PA-24 TURBO 260	IO-540	AA48110

### PIPER PAWNEE

Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
PA-25-150	O-320	AA48110
PA-25-260	O-540	AA48110
PA-36 BRAVE	6-285B	AA48109
PA-36-375 BRAVE	IO-720-D1C	AA48110
PA-36-400 BRAVE	IO-720-DICD	AA48104

### PIPER CHEROKEE, CADET

Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
PA-28-140	O-320	AA48110
PA-28-150	O-320	AA48110
PA-28-160, 161	O-320	AA48110
PA-28-180	O-360	AA48110
PA-28-180, 181	O-360-A4M	AA48110
PA-28-235	O-540	AA48110
PA-28-151	O-320	AA48110

### PIPER ARROW

Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
PA-28R-180	IO-360, L2A	AA48110
PA-28R-180	IO-360-C1CD, L2A	AA48103
PA-28R-200 ARROW II	IO-360, L2A	AA48110
PA-28R-200 TURBO ARROW III	TSIO-360	AA48108
PA-28R-201T	TSIO-360-F1	AA48108

#### PIPER DAKOTA

Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
PA-28-235	O-540-J3A5D	AA48103
PA-28-201T	TSIO-360-FB	AA48108

#### PIPER CHEROKEE SIX

Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
PA-32-260	O-540	AA48110
PA-32-300	IO-540	AA48110
PA-32R-300	IO-540-K1AD	AA48103
PA-32R-300	TIO-540-S1AD	AA48103
PA-32RT-300T	TIO-540-S1AD	AA48103
PA-32-301	IO-540-K1G5D	AA48103
PA-32-301	TIO-540-S1AD	AA48103
PA-32R-301	IO-540-K1G5D	AA48103
PA-32R-301	TIO-540-S1AD	AA48103

#### PIPER TOMAHAWK

Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
TRAINER PA-38-112	O-235-L2C	AA48103

#### PIPER MALIBU

Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
PA-46-301-P	O-235-L2C	AA48109

#### PIPER MALIBU MIRAGE

Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
PA-46-350-P	TIO-540-AE2A	AA48103

#### PIPER APACHE

Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
PA-23-150	O-320	AA48110
PA-23-160	O-320	AA48110
PA-23-235	O-540	AA48110

#### PIPER AZTEC

Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
PA-23-250	O-540	AA48110
C-PA-23	IO-540	AA48110

PA-23-250 TURBO C, D, E, F	IO-540	AA48110
PA-23-250 TURBO	TIO-540	AA48110
<b>PIPER TWIN COMMANCHE</b>		
Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
PA-30-160 TURBO	IO-320	AA48110
PA-39-160	IO-320 LIO-320	AA48110 AA48110
PA-39-160 TURBO	IO-320 LIO-320	AA48110 AA48110
<b>PIPER NAVAJO</b>		
Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
PA-31-300	IO-540	AA48110
PA-31-310 TURBO	TIO-540	AA48110
PA-31-325	TIO-540-F2BD LTIO-540-F2BD	AA48103 AA48103
PA-31-350 CHIEFTAIN	TIO-540-J2BD LTIO-540-J2BD	AA48103 AA48103
PA-31P-425	TIGO-541	AA48104
PA-31P-350 MOJAVE	TIO-540-V2AD LTIO-540-V2AD	AA48104 AA48104
<b>PIPER SENECA</b>		
Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
PA-34	IO-360-C LIO-360-C	AA48110 AA48110
PA-34	IO-360-C1E6D LIO-360-C1E6D	AA48103 AA48103
PA-34-200T SENECA II	TSIO-360-E LTSIO-360-E	AA48108 AA48108
PA-34-200T SENECA III	TSIO-360-KB LTSIO-360-KB	AA48108 AA48108
<b>PIPER AEROSTAR</b>		
Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
PA-60-600, 600A	IO-540-G, K	AA48110
PA-60-604, 601B	IO-540-P, S	AA48110
PA-60-601P	IO-540-S	AA48110
PA-60-602P	IO-540-AA1A5	AA48110
<b>PIPER SEMINOLE</b>		
Aircraft/Mfg Model	Engine Model	Tempest™ Spin-on Filter
PA-44-180	O-360-E1AD	AA48103
PA-44-180T	TO-360-E1A6D LTO-360-E1A6D	AA48103 AA48103