

#### **EASTMAN**

#### aviation solutions

## Eastman turbo oil industry approvals



### Civil aircraft

|                          |   | Engine oil approvals (includes engine<br>accessories, generators, starters) |             |             | APU oil approvals           |             |             |             |  |
|--------------------------|---|---|-------------|-------------|-----------------------------|-------------|-------------|-------------|--|
| Aircraft<br>manufacturer | Aircraft model                          | Engine model  | ETO<br>2380 | ETO<br>2197 | APU                         | ETO<br>2380 | ETO<br>2197 | ETO<br>2389 |  |
| Airbus                   | A220-100, -300                          | PW1500G   |             |             | 131-9C                      |             |             |             |  |
|                          | A300-600                                | CF6-80C2 or PW4156  |             |             | 331-250H                    |             |             |             |  |
|                          | A310                                    | CF6-80C2 or PW4152  |             |             | 331-250H                    |             |             |             |  |
|                          | A318                                    | PW6000  |             |             | 131-9A, 36-300, or APS 3200 |             |             |             |  |
|                          | A318, A319, A320, A321                  | CFM56-5A, -5B   |             |             | 131-9A, 36-300, or APS 3200 |             |             |             |  |
|                          | A319, A320, A321                        | V2500   |             |             | 131-9A, 36-300, or APS 3200 |             |             |             |  |
|                          | A319, A320, A321 (NEO)                  | LEAP-1A or PW1100G  |             |             | 131-9A, 36-300, or APS 3200 |             |             |             |  |
|                          | A330-200, -300                          | CF6-80E1 or PW4168  |             |             | 331-350                     |             |             |             |  |
|                          | A330-200, -300                          | Trent 700   |             |             | 331-350                     |             |             |             |  |
|                          | A330-800, -900 (NEO)                    | Trent 7000  |             |             | 331-350                     |             |             |             |  |
|                          | A340-200, -300                          | CFM56-5C  |             |             | 331-350                     |             |             |             |  |
|                          | A340-500, -600                          | Trent 500   |             |             | 331-600                     |             |             |             |  |
|                          | A350-900, -1000                         | Trent XWB   |             |             | HGT1700                     |             |             |             |  |
|                          | A380                                    | GP7200  |             |             | PW980                       |             |             |             |  |
|                          | A380                                    | Trent 900   |             |             | PW980                       |             |             |             |  |
|                          | ATR-42-200                              | PW120   |             |             | NA NA                       |             |             |             |  |
| ATR                      | ATR-42-500, -600<br>or ATR-72-500, -600 | PW127   |             |             | NA                          |             |             |             |  |
|                          | ATR-72-100, -200                        | PW124   |             |             | NA                          |             |             |             |  |
| BAE                      | ATP                                     | PW126   |             |             | GTCP36                      |             |             |             |  |
|                          | BAe 146                                 | ALF 502   |             |             | GTCP36                      |             |             |             |  |
|                          | Jetstream 41                            | TPE331-14GR   |             |             | GTCP36                      |             |             |             |  |
| BAE Avro                 | Avro RJ                                 | LF507-1F  |             |             | APS 1000                    |             |             |             |  |

This list is subject to change. Refer to your Component Maintenance Manual (CMM) or the Qualified Products List (QPL) to determine which fluids are approved for your application. If you have any questions about an application, call our customer service department at 800-260-4150.



**EASTMAN** 

aviation solutions

# Eastman turbo oil industry approvals

### Civil aircraft



|                          |                            | Engine oil approvals (includes engine accessories, generators, starters) |             |             | APU oil approvals            |             |             |             |
|--------------------------|----------------------------|--|-------------|-------------|------------------------------|-------------|-------------|-------------|
| Aircraft<br>manufacturer | Aircraft model             | Engine model   | ETO<br>2380 | ETO<br>2197 | APU                          | ETO<br>2380 | ETO<br>2197 | ETO<br>2389 |
|                          | B707                       | JT3C,-D or JT4A  |             |             | GTCP85-98CK                  |             |             |             |
|                          | B717-200                   | BR715  |             |             | APS 2100                     |             |             |             |
|                          | B727                       | JT8D-basic   |             |             | GTCP85-98C,CK                |             |             |             |
|                          | B737-100/-200              | JT8D-basic   |             |             | GTCP85-98C,CK                |             |             |             |
|                          | B737-300, -400, -500       | CFM56-3B/C   |             |             | 85-129, 36-280B, or APS 2000 |             |             |             |
|                          | B737-600, -700, -800, -900 | CFM56-7B   |             |             | 131-9B                       |             |             |             |
|                          | B737-7, -8, -9, -10 (MAX)  | LEAP-1B  |             |             | 131-9B                       |             |             |             |
| Boeing                   | B747-200, -300             | CF6-80C2 or JT9D-7, 7R4 or RB211-524 B, D                                |             |             | 331-660-4                    |             |             |             |
|                          | B747-400                   | CF6-80C2 or PW4056   |             |             | PW901A                       |             |             |             |
|                          | B747-400                   | RB211-524 H  |             |             | PW901A                       |             |             |             |
|                          | B747-8                     | GEnx-2B  |             |             | PW901C                       |             |             |             |
|                          | B757-200, -300             | PW2037 or RB211-535 C, E4  |             |             | 331-200ER                    |             |             |             |
|                          | B767-200, -300             | CF6-80C2 or PW4056   |             |             | 331-200ER                    |             |             |             |
|                          | B767-200, -300             | RB211-524H   |             |             | 331-200ER                    |             |             |             |
|                          | B767-400                   | CF6-80C2 or PW4062   |             |             | 331-400                      |             |             |             |
|                          | B777-200, -300             | GE90-90B or PW4084   |             |             | 331-500B                     |             |             |             |
|                          | B777-200, -300             | Trent 800  |             |             | 331-500B                     |             |             |             |
|                          | B777-300ER, -200LR         | GE90-115B  |             |             | 331-500B                     |             |             |             |
|                          | B787-800                   | GEnx-1B  |             |             | APS 5000                     |             |             |             |
|                          | B787-800                   | Trent 1000   |             |             | APS 5000                     |             |             |             |
|                          | DC-9                       | JT8D-basic   |             |             | GTCP85-98D, DC               |             |             |             |
|                          | MD-11                      | CF6-80C2 or PW4460   |             |             | TSCP 700-4E                  |             |             |             |
|                          | MD-80                      | JT8D-200   |             |             | 85-98DHFB or 36-280D         |             |             |             |
|                          | MD-90                      | V2500-D5   |             |             | 131-9D                       |             |             |             |
|                          | CRJ-200                    | CF34-3B  |             | *           | 36-150RJ                     |             |             |             |
|                          | CRJ-700, -900              | CF34-8C  |             |             | RE220 RJ                     |             |             |             |
| Bombardier               | DHC-8-100, -200            | PW121  |             |             | APS 500                      |             |             |             |
|                          | DHC-8-300                  | PW123  |             |             | APS 500                      |             |             |             |
|                          | DHC-8-400                  | PW150A   |             |             | APS 1000                     |             |             |             |

<sup>\*</sup>P10 oil pump upgrade per SB 79-0022 must be complied with prior to 2197 or M254 use.

This list is subject to change. Refer to your Component Maintenance Manual (CMM) or the Qualified Products List (QPL) to determine which fluids are approved for your application. If you have any questions about an application, call our customer service department at 800-260-4150.



**EASTMAN** 

aviation solutions

## Eastman turbo oil industry approvals

### **Civil aircraft**



|                          |                        | Engine oil approvals (includes engine<br>accessories, generators, starters) |             |             | APU oil approvals |             |             |             |  |
|--------------------------|------------------------|---|-------------|-------------|-------------------|-------------|-------------|-------------|--|
| Aircraft<br>manufacturer | Aircraft model         | Engine model  | ETO<br>2380 | ETO<br>2197 | APU               | ETO<br>2380 | ETO<br>2197 | ETO<br>2389 |  |
| Comac                    | ARJ21-700, -900        | CF34-10A  |             |             | APS 2600          |             |             |             |  |
|                          | C919                   | LEAP-1C   |             |             | HGT 750           |             |             |             |  |
| de Havilland<br>Canada   | DHC-6 Series 100, -200 | PT6A-20   |             |             | NA                |             |             |             |  |
|                          | DHC-6 Series 300       | PT6A-27   |             |             | NA                |             |             |             |  |
| Embraer                  | EMB-120                | PW118   |             |             | 36-150            |             |             |             |  |
|                          | ERJ-135, -140, -145    | AE 3007A  |             |             | APS 500           |             |             |             |  |
|                          | ERJ-170                | CF34-8E   |             |             | APS 2600          |             |             |             |  |
|                          | ERJ-190                | CF34-10E  |             |             | APS 2600          |             |             |             |  |
|                          | E170-E2                | PW1700  |             |             | APS 2600E         |             |             |             |  |
|                          | E190-E2                | PW1900  |             |             | APS 2600E         |             |             |             |  |
|                          | DO-228                 | TPE331-5  |             |             | NA                |             |             |             |  |
| Fairchild-<br>Dornier    | DO-328                 | PW119B  |             |             | 36-150            |             |             |             |  |
| Domici                   | Metro 23               | TPE331-12   |             |             | NA                |             |             |             |  |
| Fokker                   | F-50                   | PW127B  |             |             | APS 1000          |             |             |             |  |
|                          | F-70                   | Tay 620   |             |             | 36-150RR          |             |             |             |  |
|                          | F-100                  | Tay 650   |             |             | 36-150RR          |             |             |             |  |
| Irkut                    | MC-21                  | PW1400G   |             |             | HGT750            |             |             |             |  |
| Mitsubishi               | SpaceJet M100, M90     | PW1700  |             |             | APS 2600          |             |             |             |  |
| Raytheon                 | 1900D                  | PT6A-65B  |             |             | NA                |             |             |             |  |
| SAAB                     | SAAB 340B              | CT7-9B  |             |             | NA                |             |             |             |  |
|                          | SAAB 2000              | AE 2100A  |             |             | APS 1000          |             |             |             |  |
| Viking                   | Twin Otter Series 400  | PT6A-34   |             |             | NA                |             |             |             |  |

This list is subject to change. Refer to your Component Maintenance Manual (CMM) or the Qualified Products List (QPL) to determine which fluids are approved for your application. If you have any questions about an application, call our customer service department at 800-260-4150.

#### **EASTMAN**

The results of insight

**Eastman Corporate Headquarters** P.O. Box 431 Kingsport, TN 37662-5280 U.S.A.

U.S.A. and Canada, 800-EASTMAN (800-327-8626) Other Locations, +(1) 423-229-2000

www.eastman.com/locations

Although the information and recommendations set forth herein are presented in good faith, Eastman Chemical Company ("Eastman") and its subsidiaries make no representations or warranties as to the completeness or accuracy thereof. You must make your own determination of its suitability and completeness for your own use, for the protection of the environment, and for the health and safety of your employees and purchasers of your products. Nothing contained herein is to be construed as a recommendation to use any product, process, equipment, or formulation in conflict with any patent, and we make no representations or warranties, express or implied, that the use thereof will not infringe any patent. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS AND NOTHING HEREIN WAIVES ANY OF THE SELLER'S CONDITIONS OF SALE.

Safety Data Sheets providing safety precautions that should be observed when handling and storing our products are available online or by request. You should obtain and review available material safety information before handling our products. If any materials mentioned are not our products, appropriate industrial hygiene and other safety precautions recommended by their manufacturers should be observed.

© 2019 Eastman. Eastman brands referenced herein are trademarks of Eastman or one of its subsidiaries or are being used under license. The ® symbol denotes registered trademark status in the U.S.; marks may also be registered internationally. Non-Eastman brands referenced herein are trademarks of their respective owners.