



# The Importance of Filter Maintenance

As components on today's machines become more sophisticated - with higher operating pressures, higher operating temperatures, and much tighter tolerances - it is now more important than ever to make sure that these systems operate contaminant free. A regular filter inspection and replacement process is the cornerstone of every good maintenance program, and goes a long way towards keeping your equipment in prime condition and in service when you need it.

Most hydraulic system problems can be directly attributed to contamination. Contamination in the form of dirt, grit, water, trash, etc. enters the hydraulic system through dirty reservoir breathers and by improper hydraulic system repairs. These contaminants can significantly decrease the life expectancy of a hydraulic system, causing sticking valves and sluggish performance - a dangerous combination in today's ramp operations. By maintaining a diligent filter replacement program for your machine, you reduce most if not all of the contaminants suspended in the hydraulic oil. Most hydraulic filters should be changed at least once per year, sooner if under heavy usage, or per the recommended JBT maintenance schedule; however, hydraulic case drain filters should be changed every three months (or 500 service hours).



It is also imperative that only clean, filtered hydraulic oil meeting the specifications mandated by JBT be used in your machine; we adhere to the cleanliness specifications set forth in the "18/16/13" ISO 4406 standard. This standard outlines allowable size and count of particulate matter suspended hydraulic oil; JBT filters all hydraulic oil used in our units as even most new hydraulic oil doesn't meet the "18/16/13" standard for cleanliness. The hydraulic oil in your machine should also be tested yearly by a reputable oil analysis company; if you don't have access to this service, plan on replacing the oil once per year with new, filtered hydraulic oil meeting JBT specifications.

Some points to consider when servicing hydraulics:

- Use caps and plugs every time the system is opened - this prevents entry of foreign material (dirt, grit, dust, water, etc.)
- Always avoid returning used hydraulic oil to the system as this can cause nothing but grief; use only new, filtered hydraulic oil
- When filling or topping off the system, use only new, filtered hydraulic oil and only introduce that oil to the system by pouring it through the return filter (located on the hydraulic reservoir tank).





When it comes to engine related filters, be sure to follow the recommended service interval outlined by the engine manufacturer – this information is available in the engine manufacturer’s section of the JBT Aerotech illustrated parts manual (Chapter Five).

For your convenience, JBT Aerotech now offers filter kits for your American built JBT equipment. These comprehensive kits provide all the necessary filters, so a thorough protection package will cover the designated machine. We provide only original equipment filters that meet our strict specifications – something that many aftermarket filters just can’t do.

Contact your parts representative to order yours today.

Orlando: +1 407 850 4208  
Toll Free: 1 800 821 3019

London: +44 20 8831 2200

Madrid: +34 91 8775 880

Singapore: +65 6542 9272

**Loader Kits**

**Kit P/N**

|   |              |
|---|--------------|
| C-15i DEUTZ TIER 3 TCD2012                  | 627-8072-001 |
| 2007 C-15i DEUTZ TIER 2 BF4M2012            | 627-8072-002 |
| 2004-06 C-15i DEUTZ TIER 2 BF4M2012         | 627-8072-003 |
| 2003-04 C-15 DEUTZ BF4M2012                 | 627-8072-004 |
| C-15 DEUTZ B4FM1012                         | 627-8072-005 |
| C-30i DEUTZ TIER 2 BF4M2012C                | 627-8072-006 |
| C-30i/C-40i DEUTZ TIER 3 TCD2012            | 627-8072-007 |
| C-30 DEUTZ TIER 2 BF4M2012C w/REXROTH PUMPS | 627-8072-008 |
| C-30 DEUTZ TIER 2 BF4M2012C w/EATON PUMPS   | 627-8072-009 |
| C-30 CUMMINS QSB 5.9 w/REXROTH PUMPS        | 627-8072-010 |
| C-30 CUMMINS QSB 5.9 w/EATON PUMPS          | 627-8072-011 |
| 1995-98 C-15 PERKINS 1004-4                 | 627-8072-028 |
| 1999-2003 C15 Perkins 1004-42               | 627-8072-030 |
| 2010 C-60i DEUTZ TCD 2012 L06               | 627-8072-036 |
| C-30i/C-40i CUMMINS QSB 4.5 T3              | 627-8072-037 |
| C-15i CUMMINS QSB 4.5 T3                    | 627-8072-038 |

**Tractor Kits**

**Kit P/N**

|                                |              |
|--------------------------------|--------------|
| B-450 DEUTZ BF4M2012           | 627-8072-012 |
| B-600 DEUTZ TIER 2 BF6M2012C   | 627-8072-013 |
| B-600 CUMMINS TIER 3 QSB 6.7   | 627-8072-014 |
| B-600 DEUTZ TIER 3 TCD2012L06  | 627-8072-015 |
| B-1200 CUMMINS TIER 2 6CTAA8.3 | 627-8072-016 |
| B-1200 BF6M1013                | 627-8072-017 |
| B1200C CUMMINS TIER 3 QSC8.3   | 627-8072-018 |
| U-30 DETROIT TIER 3 926 LA     | 627-8072-019 |
| EXP 160 DEUTZ TIER 2 BF6M1013C | 627-8072-020 |

**Deicer Kits**

**Kit P/N**

|                                      |              |
|--------------------------------------|--------------|
| 2003-06 TEMPEST TIER 2 CUMMINS EC AF | 627-8072-021 |
| 2003-06 TEMPEST EC NON-AF            | 627-8072-022 |
| 2003-06 TEMPEST OPEN BASKET          | 627-8072-023 |
| TEMPEST CUMMINS TIER 3 EC AF         | 627-8072-024 |
| TEMPEST CUMMINS TIER 3 EC NON-AF     | 627-8072-025 |
| TEMPEST CUMMINS TIER 3 OPEN BASKET   | 627-8072-026 |
| TEMPEST MERCEDES T2 906 LA           | 627-8072-027 |
| 1999-2002 TEMPEST OPEN BASKET        | 627-8072-033 |
| 2002 TEMPEST TIER 2 CUMMINS EC AF    | 627-8072-034 |
| 2002 TEMPEST EC NON-AF               | 627-8072-035 |

**One kit, one call...JBT's filter kits provide it all.**

[www.jbtaerotech.com](http://www.jbtaerotech.com)



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