

Pall-Fit Filter Element for Hydraulic Excavators and Shovels

Description

In the mining industry, maintenance expenditure over the life of a hydraulic shovel or excavator can be many times its original purchase price. Expenses associated with pump failures, oil changes, and unscheduled downtime are key contributors to the equipment's Total Cost of Ownership (TCO).

The Pall-Fit element for mining shovel and excavator hydraulic return line applications now incorporates Pall's Ultipor® SRT (Stress-Resistant Technology) filtration medium. This filter maintains contaminants at low levels, thereby reducing hydraulic system failures and maintenance costs associated with contaminated hydraulic oil. The Ultipor SRT filter features high strength, high void volume, low clean differential pressure, and high removal efficiencies. Among the resulting benefits are low system contamination—which allows for improved hydraulic system operation—and longer filter element service life.

Specifications

Materials of construction

- Medium: Epoxy-resin-bonded inorganic fibers
- Core and end caps: Corrosion-protected carbon steel

Temperature range

Nitrile seals:

-43°C to 107°C / -45°F to 225°F

Fluorocarbon seals:

-29°C to 120°C / -20°F to 250°F HWCF: 60°C / 140°F max

Phosphate fluids: 93°C / 199°F max

Collapse pressure rating

(ISO2941):¹ 10 bard / 150 psid

Fluid compatibility (ISO2943):2

- All petroleum-based oils
- Specified synthetic hydrocarbons³



Pall-Fit filter element

Filter element rating

Part No.	βx(c)≥1000 (ISO 16889)⁴	CST Rating⁵
HC2263FMN17HY550	6 μm(c)	17/13/05
HC2263FMS17HY550	12 µm(c)	19/16/06

¹ ISO 2941: "Hydraulic fluid power–Filter elements–Verification of collapse/burst pressure rating"

² ISO 2943: "Hydraulic fluid power–Filter elements–Verification of material compatibility with fluids"

³ Use fluorocarbon seals.

⁴ ISO 16889: "Hydraulic fluid power—Multi-pass method for evaluating filtration performance of a filter element"

⁵ Cyclic stabilization test to determine filter rating under stress conditions. Based on SAE ARP4205: "Aerospace Fluid Power—Hydraulic Filter Elements—Method for Evaluating Dynamic Efficiency with Cyclic Flow"

Part Numbers / Ordering Information

The Pall-Fit Ultipor SRT filter can be used in the following hydraulic excavators, shovels, and wheel loaders.

Hitachi Excavator and Shovels

John Deere Excavators

450CLC		
550LC		
600CLC		

Samsung Excavator and Shovels

Garrisarig	LXOUVULOI	una	Onovers
SE280LC			
SE350LC			
SE450LC			
SE280LC			
SE350LC			

Komatsu Excavator and Wheel Loaders

PC1100	PC400LC-6MH
PC1100-6	PC450-6
PC1100LC-6	WA450-5
PC1100SE-6	WA470-5
PC1100SP-6	WA480-5
PC400-6	80001
PC400LC-6	WA500-3

Volvo Excavators

EC360		
EC460		

Filter Cross-Reference

OE/OEM	Part Number
Fiat	4287634
Fiat	76580323
Hitachi	4287634
Hitachi	4333469
Komatsu	2086061150
Komatsu	70630138
Samsung	104100840
Volvo	104100840

Filter Manufacturer	Part Number
Baldwin	PT8478
Carquest	84158
Donaldson	P550574
Fleetguard	HF28910
Luber-Finer	LH4742
Napa Gold	7158
Wix	57158



Corporate Headquarters
25 Harbor Park Drive
Port Washington, NY 11050
+1 516 484 3600 telephone
+1 800 289 7255 toll free US

Singapore
Pall Filtration Pte Ltd.
17 Changi Business Park Central 1
#06-01/04, Honeywell Building
Singapore, 486073
465 6389 6500
telephone

+65 6389 6500 telephone +65 6388 8688 telephone 2 +65 6389 6501 fax

Visit us on the Web at www.pall.com

Pall Corporation has offices and plants throughout the world. For Pall representatives in your area, please go to www.pall.com/contact.

Because of technological developments related to the products, systems, and/or services described herein, the data and procedures are subject to change without notice. Please consult your Pall representative or visit www.pall.com to verify that this information remains valid.

© Copyright 2009, 2010 Pall Corporation. Pall, (ALL), and Ultipor are trademarks of Pall Corporation. ® Indicates a trademark registered in the USA. *Filtration. Separation. Solution.* sx is a service mark of Pall Corporation.