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# REF: Oiling & Lubrication

## Oil Filter Comparison for Sportsters

### 57-79 Sportsters

Oil filter is placed on the return line.

57-78 XL/XLH Sportsters used drop in filters (with 'horse hair' filter media) in the oil tank.

XLCH models were not factory equipped with an oil filter.

Modern drop in filter media replacements will require you to shorten the dipstick unless you find a “horse hair” type. <sup>1)</sup>

79 models had a new oil tank with no filter.

An optional external oil filter kit (63801-79) <sup>2)</sup> with a chrome filter could be purchased from the MoCo.

### 80-E84 Sportsters

Oil filter is placed on the return line.

OEM Spin-On Oil Filters				
80-E84	63782-80 <sup>3)</sup>	chrome	short	
	63782-80T <sup>4)</sup>		short	
	63810-80 <sup>5)</sup>	black	short	
	63810-80A <sup>6)</sup>	black	short	
Aftermarket Spin-On Oil Filters				
K&N	KN-171	black		
K&N	KN-172C	chrome		
Fram	PH6019	Chrome	Short, 2.480"	
Napa	NGF7013	Chrome	Short, 2-1/2"	20 micron
WIX	57013	Chrome	Short, 2-1/2"	20 micron
1980-E1984 Chrome Oil Filter 63782-80 <sup>7) 8)</sup>				



## L84 and Up Sportsters

**L84-85:** Oil filter is placed on the return line.

**86-90:** Oil filter is placed on the feed line.

OEM Spin-On Oil Filters					
	63805-80 <sup>10)</sup>		long	3/4"x16	
L84 and Up	63805-80A <sup>11)</sup>	black	long	3/4"x16	
	63796-77A <sup>12)</sup>	black	long	3/4"x16	

- Notes:

- Champion Labs are reportedly the supplier of OEM HD filters. Champion and FRAM merged together in 2013. <sup>13)</sup>
- FRAM Group (including FRAM® oil, air, transmission and fuel filters) has combined its filtration business with the Champion Laboratories (of UCI International). <sup>14)</sup>
  - Champion Labs manufacturers and distributes a broad range of filtration products branded under the LUBER-FINER® and CHAMP® brands.
  - These businesses will now go to market as a single entity - FRAM Filtration.
- On filters with removal nuts, some have a crossed-drilled hole so racers can safety wire the filter to their bike. <sup>15)</sup>
- K&N Oil Filters for Harley-Davidson® Motorcycles: <sup>16)</sup>
  - Premium OEM replacement oil filters
  - 17 mm nut for easy oil filter removal
  - Heavy duty construction for extreme conditions
  - Allows for high oil flow rates
  - Anti-drainback valve (where applicable)
  - The SS171 model is reusable but pricey @ \$219.95. The filter housing, bypass valve and call plate are CNC machined from Billet 6061 T6 Aluminum. <sup>17)</sup>
  - The filter element doesn't twist-lock into place on the adapter ring. <sup>18)</sup>
  - Also has embedded neodymium magnets to catch metal particles. <sup>19)</sup>

Alternative Filter	Model	Media / Advertised Filtration Efficiency	Height	O.D.	Anti Drainback Valve	Bypass Setting	Thread I.D.	Removal Nut
AMSOIL	EaOM134 black	Synthetic 98.7% @ 20 microns	3.4"	2.97"	Yes	?	3/4"x16	
AMSOIL	EaOM134C chrome	Synthetic 98.7% @ 20 microns	3.4"	2.97"	Yes	?	3/4"x16	
AMSOIL	EaOM135 black	Synthetic 98.7% @ 20 microns	3.4"	2.97"	No	?	3/4"x16	
AMSOIL	EaOM135C chrome	Synthetic 98.7% @ 20 microns	3.4"	2.97"	No	?	3/4"x16	
Bosch DistancePlus	D330 <sup>20)</sup> blue	Cellulose Paper 99% @ 40 microns	3.36"	?	Yes	12-15 psi	3/4"x16	
Champ-Lab	PH2835 white	?	?	?	No	?	3/4"x16	
Champ-Lab	PH2835XL silver	Synthetic	?	?	Yes	?	3/4"x16	
Champ-Lab	PH7022 chrome	?	3.41"	2.98"	Yes	?	3/4"x16	
Cummins	LF335 <sup>21)</sup>	95% @ 30 microns	3.49"	2.99"	No	?	3/4"x16	
Fram	PH6022 <sup>22)</sup> (black)	?	3.359"	3.00"	Yes	12 psi	3/4"x16	
Fram	PH6065B <sup>23)</sup> (chrome)	?	3.625"	2.994"	Yes	7-9 psi	3/4"x16	
Fram	XG3614 <sup>24)</sup>	2-Ply Synthetic 99%> @ 20 microns	3.343"	2.984"	Yes	12 psi	3/4"x16	
Hastings	LF576 <sup>25)</sup>	?	3-1/2"	3"	?	8 psi	3/4"x16	
Hastings	LF600 <sup>26)</sup> chrome	?	3-21/32"	3 1/8"	?	17 psi	3/4"x16	
HIFLO	HF170B <sup>27)</sup> black	?	3.62"	2.99"	?	?	3/4"x16	No
HIFLO	HF170C <sup>28)</sup> chrome	?	3.62"	2.99"	?	?	3/4"x16	No
HIFLO	HF170BRC <sup>29)</sup> black	?	3.62" + nut	2.99"	?	?	3/4"x16	Hex
HIFLO	HF170CRC <sup>30)</sup> chrome	?	3.62" + nut	2.99"	?	?	3/4"x16	Hex
K&N	KN-170 <sup>31)</sup> black	High flow premium	3.938"	2.938"	No	?	3/4"x16	17mm Hex

K&N	K-170C <sup>32)</sup> chrome	High flow premium	3.938"	2.938"	No	?	3/4"x16	17mm Hex
K&N	SS171 <sup>33)</sup> reusable billet alum	Dual woven 304 stainless mesh	3.625"	3"	No	16 psi	3/4"x16	Hex nut
LUBER-FINER	PH2835 <sup>34)</sup> white	?	3.11"	2.98"	Yes	?	3/4"x16	No
LUBER-FINER	PH7022 <sup>35)</sup> chrome	?	3.41"	3.13"	Yes	?	3/4"x16	No
MAHLE	OC21 <sup>36)</sup> black	?	3.15"	3.09"	Yes	?	3/4"x16	No
Micro Green	MG201-1 <sup>37)</sup> green pics <sup>38)</sup>	Dual conventional & microfilter (2 microns)	3.4" <sup>39)</sup>	2.6" <sup>40)</sup>	Yes	?	3/4"x16 <sup>41)</sup>	No
Mobil 1	M1MC-131 <sup>42)</sup> black	99.9% @ 10 microns <sup>43)</sup>	3.8"	3.2"	Yes	?	3/4"x16	No
Mobil 1	M1MC-132 <sup>44)</sup> chrome	99.9% @ 10 microns <sup>45)</sup>	3.7"	3.2"	Yes	?	3/4"x16	No
Motorcraft	FL910S <sup>46)</sup> white	Dual Cellulose and Polyester 80% @ 20 microns	?	?	Yes	?	3/4"x16	No
NAPA Gold	FIL7148 <sup>47)</sup> black	Synthetic 99% @ 23 microns	3.404"	2.921"	Yes	?	3/4"x16	No
NAPA Gold	FIL7348 <sup>48)</sup> chrome	Synthetic 99% @ 23 microns	3.404"	2.921"	Yes	?	3/4"x16	No
Pennzoil Platinum HE	HPZ-21 <sup>49)</sup> white	2-Ply Synthetic blend 99% @ 30 microns	?	?	Yes	?	3/4"x16	No
Premium Guard	PG63798 <sup>50)</sup>	Dual Synthetic 99% @ 5 microns	?	?	Yes	?	3/4"x16	No
Purolator <sup>51)</sup>	ML16831 black		3.11"	3.45"	?	10-14 psi	3/4"x16	?
Purolator <sup>52)</sup>	ML16831C chrome		3.11"	3.45"	?	10-14 psi	3/4"x16	?
Purolator <sup>53)</sup> Boss	PBL10241		3.36"	2.98"	Yes	12-15 psi	3/4"x16	?
Purolator <sup>54)</sup>	PL10241		3.36"	2.98"	Yes	12-15 psi	3/4"x16	?

Wix	51225 <sup>55)</sup> chrome	Cellulose Nominal 21 microns	3.41"	2.921"	Yes	8-11 psi	3/4"x16	No
Wix	51348XP <sup>56)</sup> black	Synthetic	3.404"	2.921"	Yes	8-11 psi	3/4"x16	No
Wix	52215 <sup>57)</sup> black	Cellulose Nominal 21 microns	3.404"	2.921"	No	8-11 psi	3/4"x16	No
Wix	57148 <sup>58)</sup> black	Synthetic Nominal 5 microns	3.404"	2.921"	Yes	8 psi	3/4"x16	No
Wix	57348 <sup>59)</sup> chrome	Synthetic Nominal 5 micron	3.404"	2.921"	Yes	8 psi	3/4"-16	No

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left photo courtesy of Ebay seller, cyclewarehouse. [Link to Items for Sale](#)

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right photo courtesy of Ebay seller, animalhouse2010, [Link to Ebay store:](#)

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