



Donaldson Blue™ Lube Filters Help You Go the Extra Mile Delivering Extended Service Intervals



Donaldson Blue™ lube filters are designed for heavy-duty truck and diesel engine extended maintenance programs. Just a simple cross reference of your current lube filter and you'll reduce oil consumption, increase engine protection and reduce operating costs.

For most lube filters, the secret to balancing efficiency, capacity and restriction is hidden underneath the surface. Donaldson Synteq™ media technology provides the optimal balance of all three characteristics. Donaldson Blue filters are the definitive choice to protect equipment, reduce maintenance cost and increase equipment uptime.



Donaldson Blue™ lube filters with Synteq™ media reduce oil consumption, increase engine protection and reduce operating costs. They provide the optimal balance of efficiency, capacity and restriction, and remove more than **90% of contaminants** that are 10 microns or larger, compared to 50% or less for typical cellulose filters. At the same time, they deliver **nearly double** the contaminant carrying capacity of standard cellulose filters. Fully synthetic Synteq media also delivers **lower restriction** to provide **maximum oil flow**. Donaldson Blue lube filters are designed specifically to provide **longer filter life** – a critical component of any extended filter maintenance program.



Upgrade from a Competitive Filter to Donaldson Blue™

Donaldson Blue filters are direct replacements to standard filters – no system modifications or special disposal requirements.

| Donaldson Blue™ | Donaldson Standard | Fleetguard | Baldwin | Luber-finer | Wix | Primary Application |
|-----------------|--------------------|------------|----------|-------------|---------|---|
| DBL3998 | P552100 | LF9620 | B495MPG | LFP2160XL | 51971XD | Detroit Diesel Series 60 Engines |
| DBL7300 | P553000 | LF9039 | BD7309 | LFP3000XL | 51748XD | Cummins® Engines |
| DBL7345 | P558616 | LF3805 | — | — | — | Cummins® 4B 3.9 Series Lube |
| DBL7349 | P558615 | LF9028 | BT7349 | LFP780XL | 57620XE | Cummins® 4B and 6.B Series Lube |
| DBL7367 | P550367 | LF9026 | — | LFP2285XL | — | Navistar Engines |
| DBL7405 | P554005 | LF9691 | B7249MPG | LFP4005XL | 51792XD | Caterpillar Engines |
| DBL7483 | P553191 / P550519 | LF9667 | — | LFP3191XL | — | Mack/Volvo Engines |
| DBL7670 | P551670 | LF9325 | B96MPG | LFP670XL | 51970XD | Cummins® Engines/ Detroit Diesel Engines |
| DBL7690 | P550769 | LF16046 | — | — | 57213 | Mercedes Engines |
| DBL7739 | P554004 | LF3379 | B76MPG | LFP3191 | 51791XE | Caterpillar Equipment |
| DBL7900 | P559000 | LF9031 | — | — | 57746XD | Cummins® ISK Engines and ISM Engines |
| DBL7947 | P550947 | LF3363SC | — | — | — | Detroit Diesel Engines |

Oil Analysis Kit for Fleets and Off-Road Vehicles and Equipment

Use X007374 for routine oil analysis for diesel engines or hydraulic oil reports on wear metals and additives.



Kit Part No. X007374

| | |
|--------------------|---|
| Metals, ppm by wt | ◆ |
| Viscosity, cSt. | ◆ |
| Water % | ◆ |
| Fuel % by Infrared | ◆ |
| Soot by Infrared | ◆ |
| Glycol (Coolant) | ◆ |

Sampling Accessories

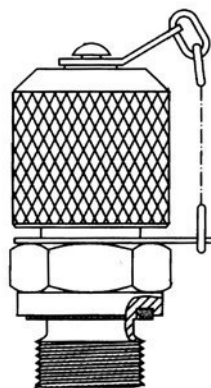
These accessories can simplify your oil analysis during the normal maintenance routines.

Plastic Tubing Part No. P176433

Sampling Pump Part No P176431



Sampling Pump & Plastic Tubing (sold separately in 100 ft. rolls)



Quick Sampling Valve.

Oil Analysis Program Video Available on YouTube®

Donaldson recommends oil analysis as a fast and highly accurate way to assess what's in your engine's oil. An overview video is available on our YouTube channel as a resource for understanding our engine oil analysis program. This video reviews why a preventative maintenance program is important, how the analysis works, and how to read the lab report.

SERVICE TRAINING VIDEOS



youtube.com/user/donaldsonengine

Sample Processing/Reporting

Labs will request that you send your oil sample(s) as soon as possible after collecting. The oil samples do not "break down," but any long delay between sampling and analysis can be crucial if a unit is failing.

Once the oil sample reaches the lab, we will process it within 24 hours. You will be notified by phone/fax if critical conditions are present.

Features of the Report:

- Up to 6 sets of test results (current and 5 previous) displayed
- Spectrochemical and physical results underlined where applicable
- Full headings for all results



Lube Filtration Systems

The following pages present Donaldson’s catalog product offering for Lube Assemblies. Product offering includes both by-pass and full-flow filtration designs.

Use the matrix below to determine the filtration system that best matches up with the flow requirements and the key features for design and mounting on your engine.

Filter Performance Choices

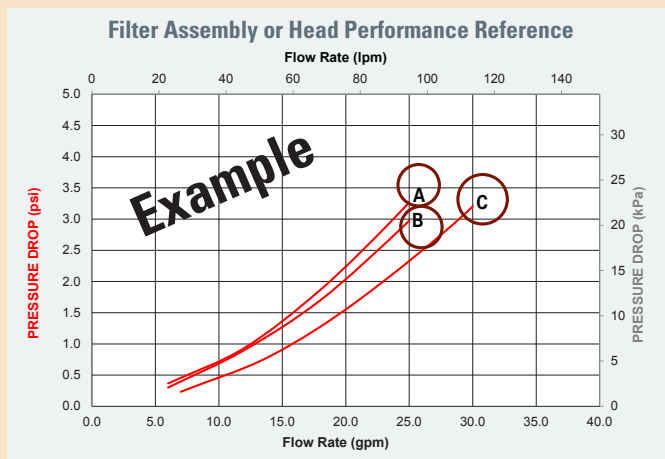
The filter tables provide you with the separate filters that fit the same head assembly – these differ by length and filter performance. Choices are presented by level of efficiency.



Lube Filter Mix & Match Choices

| Mix and Match Lube Filter Systems | | |
|------------------------------------|------------------------------|---|
| Families by Filter Diameter ϕ | Flow Range | Features |
| 93 mm / 3.54" | 20 gpm / 76 lpm | Standard design for full flow filtration, top mount, single port head, spin-on filter |
| 118 mm / 4.65" | 1.75 gpm / 6.62 lpm @ 85 psi | Standard design for bypass filtration, side mount, single port heads, spin-on filter |
| | 45 gpm / 170 lpm | Standard design for full flow filtration, top mount, single port head, spin-on filter |

How Donaldson Displays Filter Flow versus Pressure Loss Data



Performance Curve Notes

- Pressure loss was tested per the ISO 3968 standards.
- All flow measurements were made with Mobil DTE Light oil at 144°F (62.2°C), 15 cSt.
- Test conducted with a sample size of three filters.
- Filter performance curves will list an alpha reference (see circled areas on chart). These labels correspond with the filter choice tables.



Full-Flow Lube Filters for Cummins® ISX Engines

Every oil filter needs to effectively balance three characteristics: efficiency (contaminant removal), capacity (contamination holding ability) and restriction (resistance to oil flow). Donaldson full-flow lube filters process the entire regulated oil flow through our pleated elements, even in cold temperatures – meaning your engine receives critical lubrication protection. Two-stage stacked disc filters allow only a portion of the flow to pass through the high-efficiency stage – which means more contaminant can pass on to the engine.

That's precisely why Donaldson recommends full-flow lube filters that strike the right balance for Cummins ISX and other heavy-duty engines. Donaldson filters deliver:

- Ultra-high efficiency on fine particulate and oil degradation (sludge),
- Higher contaminant holding capacity, and
- Minimum oil flow restriction.

Donaldson offers three different lube filters for ISX engines that keep oil cleaner by capturing more contaminants that can cause engine wear. Choose the filter that best fits your requirements.

OEM Efficiency

High Efficiency

STANDARD SEALS

HEAVY-DUTY SEALS



P550949

OEM Efficiency

Reliable contaminant capture and capacity (life). If you've experienced filter plugging due to excessive sludge caused by soot or coolant contamination – this is the filter for you.

- Efficiency: >99% @ 30µm
- 35% lower oil flow restriction than LF9080

CROSSESTO:

Cummins 2882674 / Fleetguard LF9080



P559000

High Efficiency

Increased levels of contamination capture combined with good capacity. Offers a higher level of engine protection than the OEM standard option.

- Efficiency: 99% @ 15µm
- 13% lower oil flow restriction than LF9080



DBL7900 (ELF7900)

High Efficiency with Heavy-Duty, Long-Life Seals

If your primary concern is engine protection – this premium filter will deliver with durable seals and heavy-duty potting materials to withstand extreme conditions and hot oil temperatures.

- Efficiency: 99% @ 15µm
- 40% lower oil flow restriction than LF9031

Cummins 4906633 / Fleetguard LF9031



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