



AUTHORIZED DISTRIBUTOR

MnI Diesel, LLC | MnI Maintenance, LLC

Setting the Standard in Oil Filtration

*Keep It Clean!*<sup>®</sup> & *Keep It Green!*

## Oil does not wear out

- It oxidizes during the combustion process
- It becomes contaminated due to high temperatures, soot, silica, acid, sulfur, metal particles, water, fuel and glycol
- When contaminated, oil can no longer protect, cool and lubricate
- Additives are depleted

## Oil can last indefinitely

- When harmful gaseous, liquid, and solid contaminants are removed and additives are replaced

## The **puraDYN**<sup>®</sup> System Protects the Oil's Properties by

- Removing **solid** contaminants to below one micron
- Removing **liquid** and **gaseous** contaminants
- Replenishing the **base additives** in engine oil



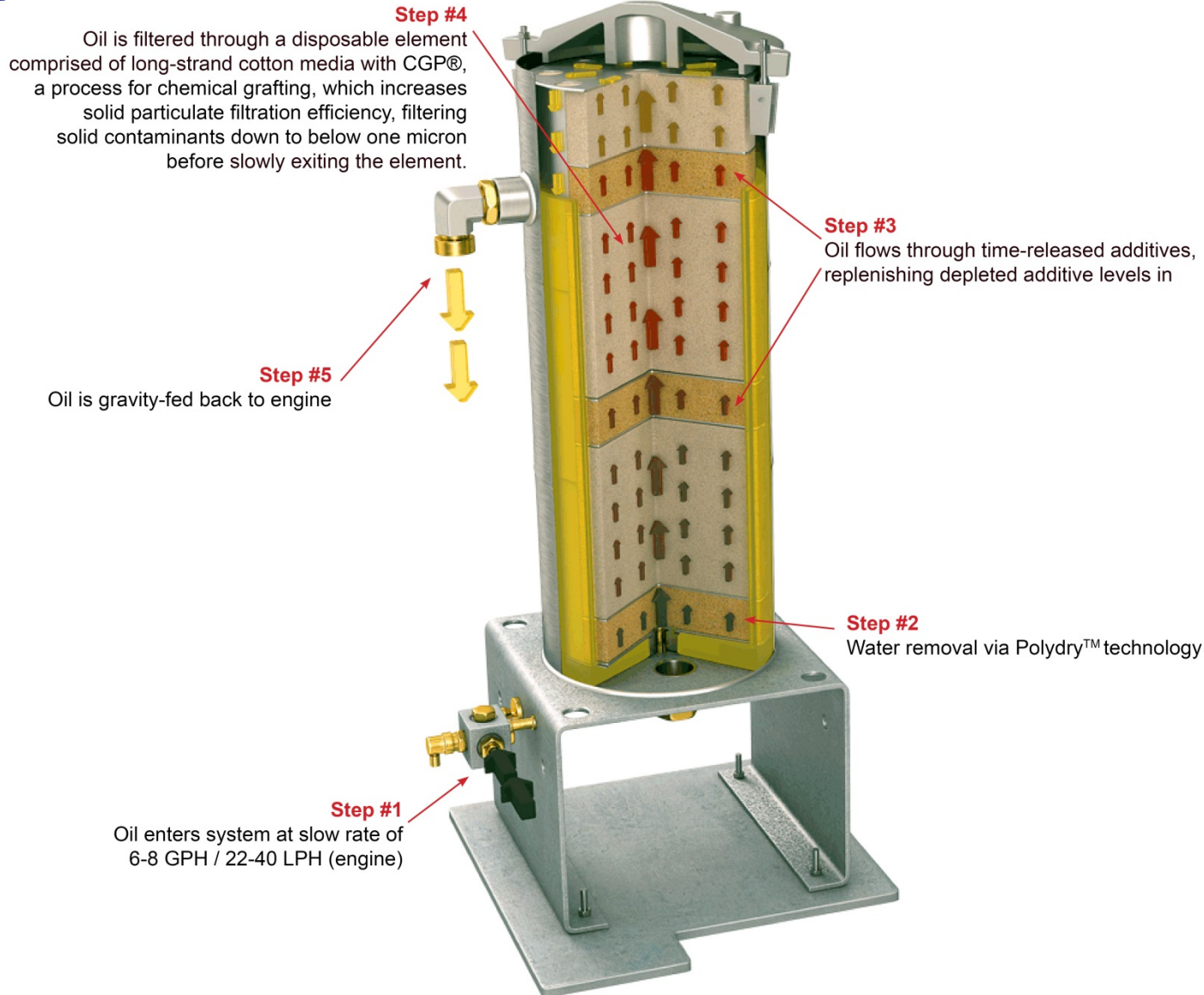
# The puraDYN<sup>®</sup> Oil Filtration System

- Is a multi-stage, highly efficient bypass oil filtration system
- Works with the oil in an engine or hydraulic system
- Cleans oil by removing solid, liquid and harmful gaseous contaminants
- Maintains proper lubricant viscosity
- Works in conjunction with the OEM full-flow filter
- Additive package maintains proper TBN levels in engine oil
- Process for chemical grafting, CGP<sup>®</sup>, maximizes filtration capabilities
- Polydry<sup>®</sup> polymer-based technology captures and removes water contamination, addressing new regulations for gas and dual-fuel engines; eliminates electrical connection

**Safely extends oil drain intervals!**



# The puradYN® Filtering Process





# The puradYN<sup>®</sup> Benefits

## Safely Extends Oil Drain Intervals

- Up to 90% of new oil purchases
- Up to 90% decrease in waste oil and disposal
- Less handling of oil and possible environmental problems
- Decreased downtime / increased productivity
- Oil Viscosity Is Properly Maintained
- Oil Additives are Replenished

## Equipment Runs on Continuously Clean Oil

- Significant extension of engine life and efficiency
- Savings from replacement of worn engine parts
- Extends life of costly engine assets ~20-25% or more

**Attractive Payback & ROI – Usually 1 to 10 Filter Changes**

Evaluates the physical and chemical properties found in oil

Provides:

- Understanding of quality of lubricant
- Effectiveness of the filtration system
- The operating condition of the equipment

Oil analysis should be performed  
at each **puraDYN**<sup>®</sup> filter change.



# Independent Test Results

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## SAE HS 806-95 ISO Fine Dust Test:

- 100% Efficiency over 200 Hrs.

## SAE HS 806-95 SOFTC-2A

- Avg. 69% Efficiency over 100 Hrs.

## US Department of Energy at Idaho National Laboratory for the US Government

- Final Test shows an average of 89% avoidance in oil changes and 89% oil usage reduction

## Society of Automotive Engineers (SAE) #660081

*“Filtration of previously used oil to 5 microns had no significant effect on wear, but filtration to 1 micron had a substantial effect on wear.”*

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A fuel consumption study conducted in 2000 at the University of Leeds\* demonstrated the benefits associated with cleaner oil on fuel economy. The test noted that the engine’s fuel efficiency increased 2%-3% when a bypass filter was used along with a full flow filter.

**\*Ref: SAE #2000-01-0234**

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## **puraDYN**<sup>®</sup> Filter

*“Filtration effectiveness – 0.5 to 1 micron”.*





# Selecting a puraDYN® System

**Severe applications and operating environments may require model size adjustment from that shown on the standard sizing chart below.**

Please contact your local distributor or Puradyn directly if you have any questions about the correct size system for your application or environment.

<b>puraDYN® SYSTEM</b>	<b>ENGINE OIL CAPACITY*</b>
MTS 8	Up to 10 qts   9.6 L
MTS 8x12	Up to 24 qts   22.7 L
MTS 12	Up to 24 qts   22.7 L
MTS 24	Up to 44 qts   41.7 L
MTS 40	Up to 100 qts   94.7 L
MTS 60	Up to 172 qts   162.8 L
MTS 240	Up to 340 qts   322 L



\*Higher quart capacity assumes use of CGP additive.



# Extended Oil Maintenance Intervals

Interval	One Half Interval	OEM Interval	OEM Interval	OEM Interval	OEM Interval
<b>Puradyn Filter</b>	Change	Change	Change	Change	Change
<b>Oil Analysis Sample*</b>	Yes	Yes	Yes	Yes	Yes
<b>Full Flow Filter</b>		Suggested change interval is every time the Puradyn replacement filter element is changed.			
<b>Oil Change</b>		No oil change needed unless recommended by the oil analysis report			

**When the puraDYN Bypass Oil Filtration System is installed/retrofitted as an aftermarket item, change both the oil and full flow filter at time of installation. Take a sample from the new oil for baseline oil analysis.**

Then, at one-half the normal oil drain interval (as shown above), change the puraDYN replacement filter and full flow filter and take an oil analysis sample.

Thereafter, change the puraDYN replacement filter and perform oil analysis at the intervals shown above or, as oil analysis dictates. **Continue using oil if lab report specifies oil is up to spec for continued use.**

\*Oil analysis: Oil sample should be taken with engine running.

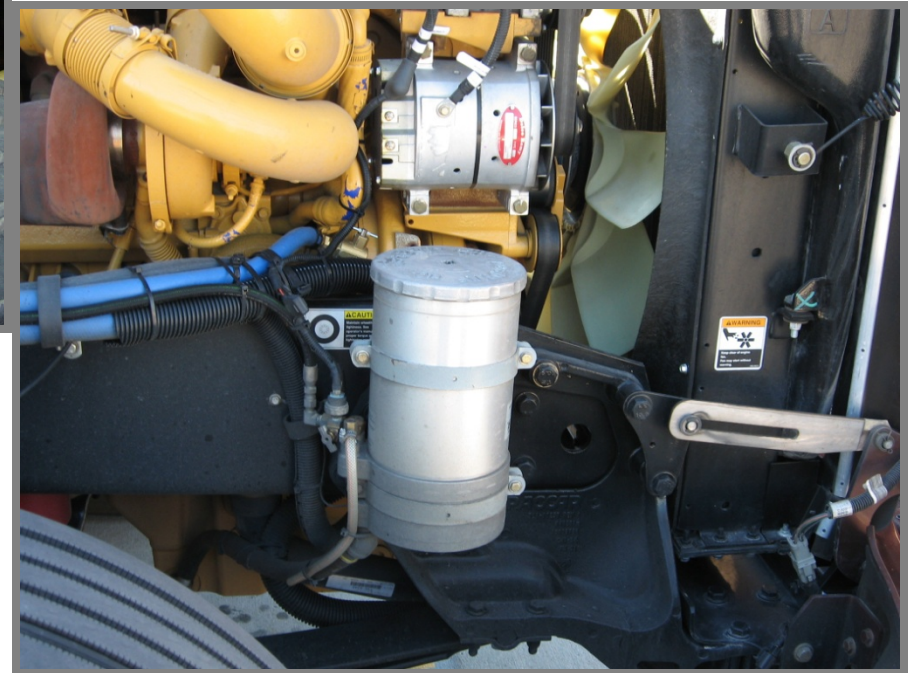


## The **puraDYN**<sup>®</sup> Oil Filtration System:

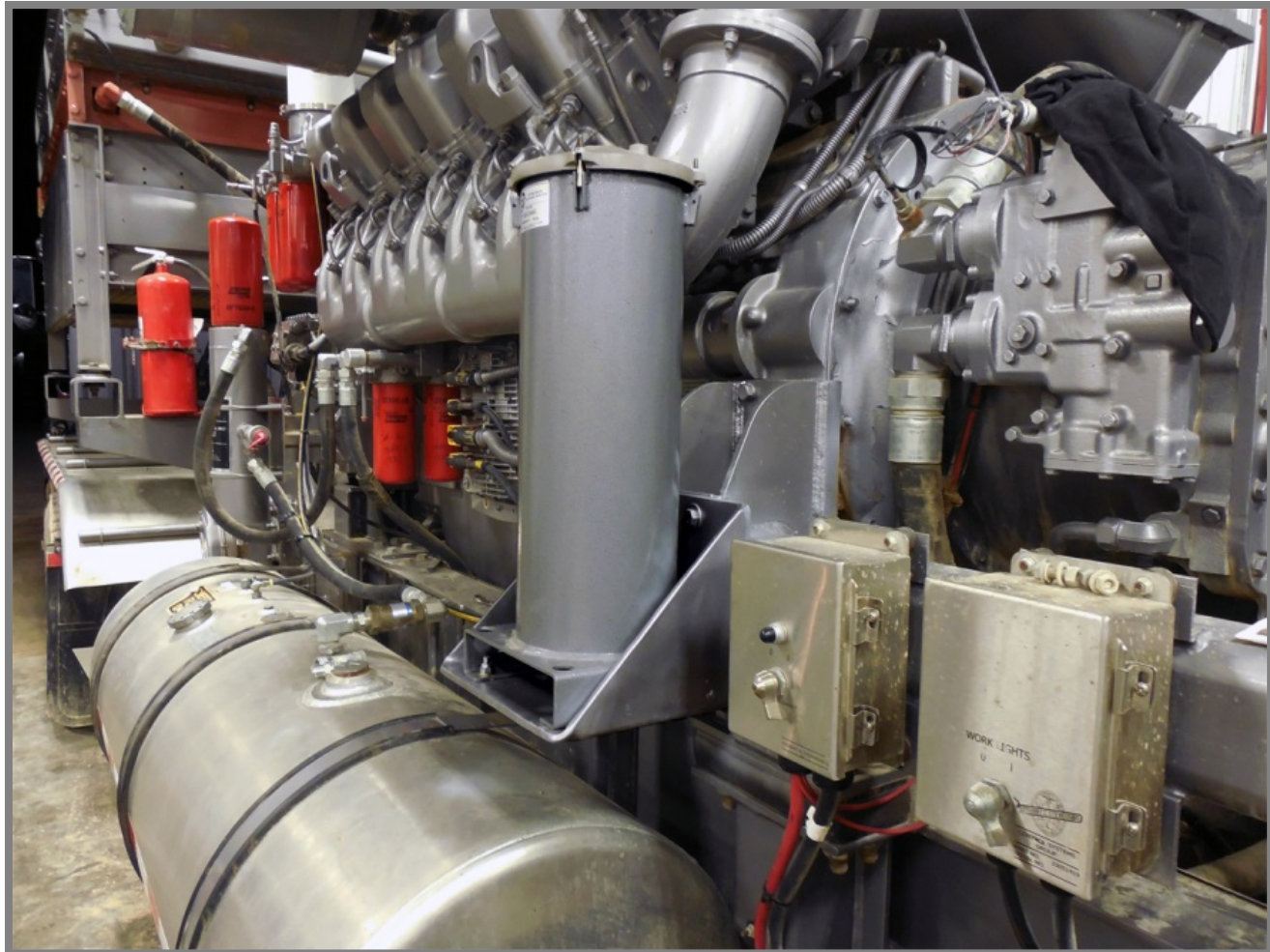
- Safely extends oil drains
- Removes solid contaminants down to 1 micron
- Removes liquid contaminants such as fuel and water
- Replenishes additives to engine oil
- Offers attractive payback and ROI



# 2007 Cat Engine Equipped with puradYN<sup>®</sup>



# Frac Truck Equipped with puradYN<sup>®</sup>





# Cat 785B Haul Truck Equipped with **puraDYN**®





# GenSet A Plant Equipped with **puraDYN**<sup>®</sup>

*All new Generators Factory-Equipped with Puradyn Oil Filtration Systems to Achieve Engine Oil and Filters Service Interval Extension from 250 to 1,000 hours*





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**For more information on the puraDYN® Oil Filtration System  
contact:**

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***We Fight Dirty®!***