



Setting the Standard in Oil Filtration
*Keep It Clean!® & Keep It **Green!***



Oil Characteristics

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[®] 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[®] 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[®], maximizes filtration capabilities

Safely extends oil drain intervals!



The puradYN® Filtering Process

STEP #3

Oil is filtered through a disposable element with time-release additives to replenish depleted levels in oil, then cascades outside the element to evaporation chamber

STEP #4

Water, fuel and harmful gaseous vapors trapped in oil are evaporated

STEP #5

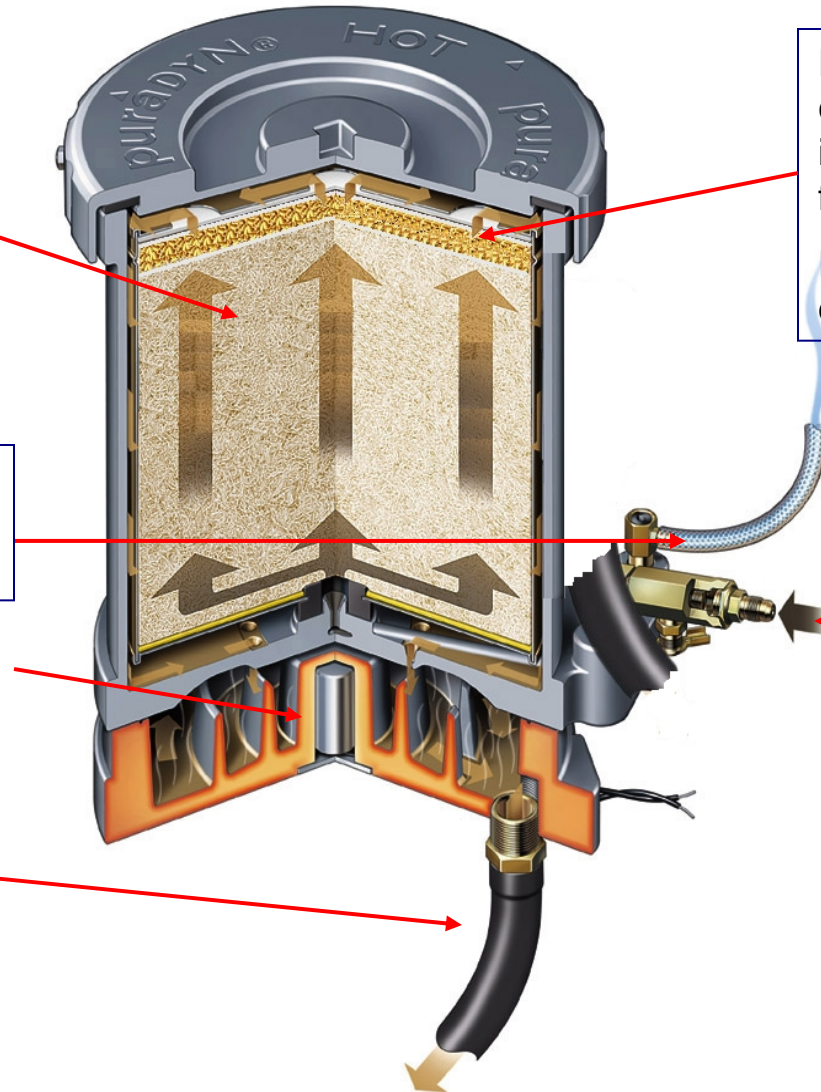
Oil is Gravity fed back to Engine or Hydraulic Tank

STEP #2

Patented process for chemical grafting, CGP®, increases solid particulate filtration efficiency.
Filters solid contaminants down to one micron.

STEP #1

Oil enters system at a slow rate of approximately 6 – 8 gal/hr.





The puraDYN[®] 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

Attractive Payback & ROI – Usually 6 to 10 Filter Changes



Oil Analysis

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**[®] filter change.



Independent Test Results

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.

Water Removal Efficiency

- 88% to 96%, 8 Hrs. to 20 Hrs. – Test Duration

Additive release rate validated through laboratory and actual field testing

(Actual Rate is Proprietary)

US DOE at INL

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



Savings Analysis

PFT System & Installation (Capital) Cost*		
PFT Model – PFT24		\$ 388
Filter Types – CGP® with Additives		35
PFT Unit and Filter Cost		423
Accessories (Hose Fittings Brackets, etc.)		75
Installation Labor (2 hours) @ \$50/hour		100
Total Capital Cost		\$ 598
Puradyn Oil Change Cost Per Year		
Labor @ \$35/hr	(1/4 hour)	9
Oil (# of qts X cost/qt)	Make-up oil qts	4
Fill Flow Filter		15
Oil Analysis Cost		11
PFT Filter Cost		35
Subtotal		74
No. of PFT Filter Changes per Year	4	
PFT Oil Change Cost		\$ 296
Customer Oil Change Cost Per Year		
Customer Oil Change Cost		\$ 180
# Oil Changes / Year	8	1440
Full Flow Filters (\$15 ea x # of changes)	15 x 8	120
Total Annual Oil Change Cost		1560
PFT Oil Change Cost		-296
Annual Cost Savings		\$ 1264

Vehicle Life / Years	10
Vehicle Savings Before Capital Cost (Annual Cost Savings X Vehicle Life)	12,640
Capital Cost	-598
Subtotal	12,042
Fleet Size (# of Units)	1000
TOTAL FLEET SAVINGS	\$ 12,042,000

*The example above is based on Fleet pricing and is for demonstration purposes only. Before making any decisions based on pricing, contact your Puradyn Representative for the appropriate level of pricing



Selecting a puradYN[®] System

Size of the system depends on the application and ENGINE or HYDRAULIC oil capacity.



puradYN [®] SYSTEM	ENGINE OIL CAPACITY*	HYDRAULIC OIL CAPACITY
PFT8	Up to 12 quarts	-N/A-
PFT12	Up to 24 quarts	15 gallons
PFT24	Up to 44 quarts	40 gallons
PFT40	Up to 100 quarts	100 gallons
PFT60	Up to 172 quarts	500 gallons
TF-240	Up to 300 quarts	1,000 gallons

*Higher quart capacity assumes use of CGP additive.

The puraDYN[®] Oil Filtration System:

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



2007 Cat Engine Equipped with puradYN®





Rinker Cement Truck Equipped with puraDYN®





Cat 785B Haul Truck Equipped with puraDYN®





GenSet A Plant Equipped with **puradYN**[®]

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





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

Customer Service

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