



When it comes to your engine oil,
We Fight DIRTY!®



The Puradyn® Oil Filtration System

- A multi-stage, highly efficient bypass oil filtration system
- Works with the oil in an engine or hydraulic system and in conjunction with the OEM full-flow filter
- Installed in tens of thousands of engines globally at industry leaders in oil and gas exploration, marine transportation, trucking and mining



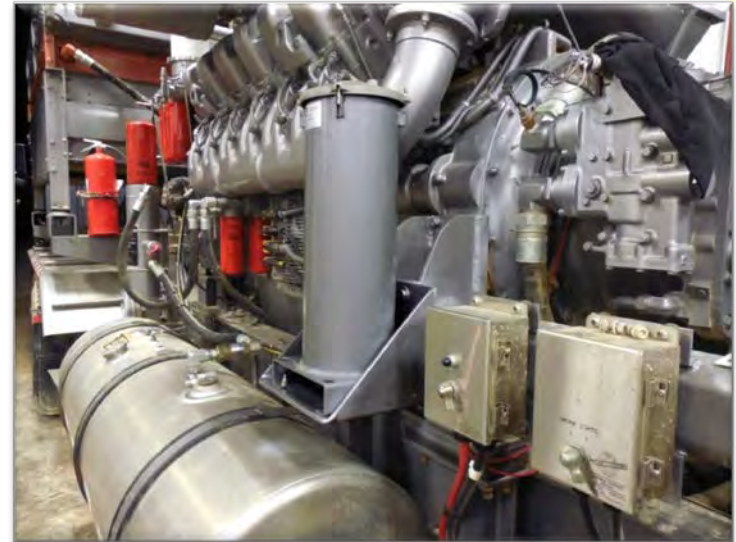
Caterpillar Engine Equipped with Puradyn



The Puradyn[®] Oil Filtration System

What does the patented Puradyn filtration system do for engine oil?

1. Removes solid contaminants to <1 micron
2. Removes liquid contaminants and water through use of Polydry[®] polymer technology
3. Replenishes base additives to maintain proper TBN levels



Frac Truck Equipped with Puradyn



The Puradyn® Oil Filtration System

What impact does this have?

It keeps your engines running on continuously clean oil.

1. Reduces frequency of oil changes by as much as 90%, resulting in:
 - 90% less oil purchased/stored
 - reduced cost and environmental risk of waste oil storage and disposal
 - reduced labor costs and engine downtime
2. Extends the life of your engine
 - Top end overhauls may no longer be necessary
 - Engine life can be extended from 25% to nearly 300%



Cat 785B Haul Truck Equipped with Puradyn

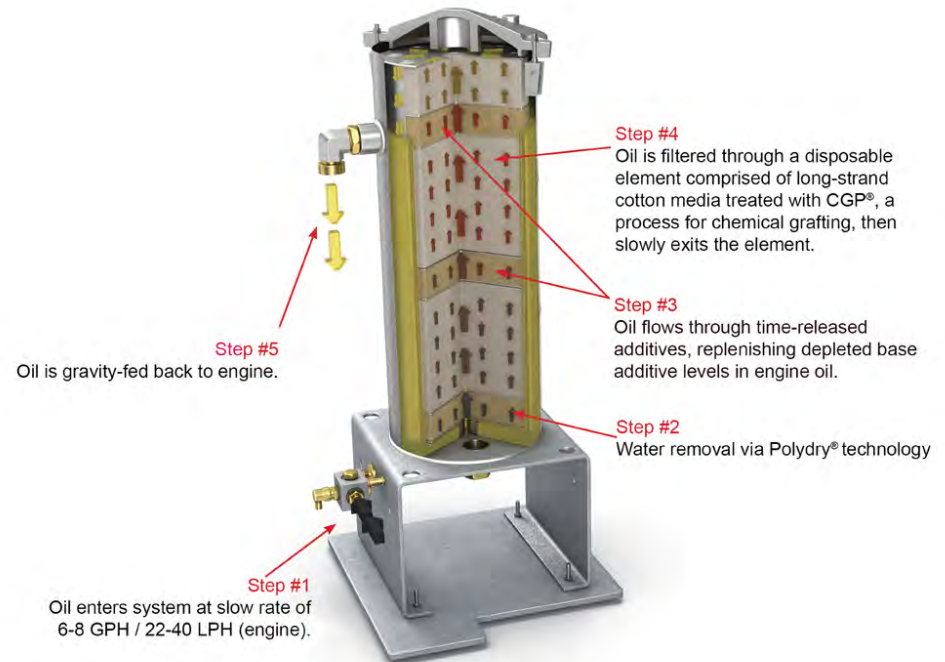


The Puradyn® Filtering Process

Working much the same way as kidney dialysis machine, the Puradyn System diverts a small amount of engine oil at a slow rate of flow.

Leveraging our patented solution, the filter continuously cleans the oil of impurities and replenishes key additives.

	Centrifugal Filters	Puradyn
Removes solid contaminant < 1 micron	✓	✓
Can be used in all industrial fluids	✓	✓
Removes water from oil		✓
Continuously cleans oil		✓
Replaces base additives		✓
Dependent on engine speed	✓	
Pump assisted	✓	





Extended Oil Maintenance Intervals

Many Puradyn users report extending oil change intervals to over 5,000 hours, and sometimes over 10,000 hours

- Instead of automatically changing the oil at the OEM suggested intervals, the Puradyn filters are replaced and an oil sample is taken for analysis.
 - Evaluates the physical and chemical properties found in oil
 - Provides understanding of quality of lubricant, the effectiveness of the filtration system and the operating condition of the equipment
- If analysis confirms oil is up to spec, they continue use.

"We have extended out the oil changes from 750 hours to 5,000 hours or more. We also stopped doing top end overhauls at 25,000 hrs. The heads now last the life of the engine at 50,000 hours.

We would not have been able to do this without the Puradyn filters."

Maintenance Manager of global drilling contractor who has used Puradyn filters on Caterpillar 3512 and 3516 engines for over five years



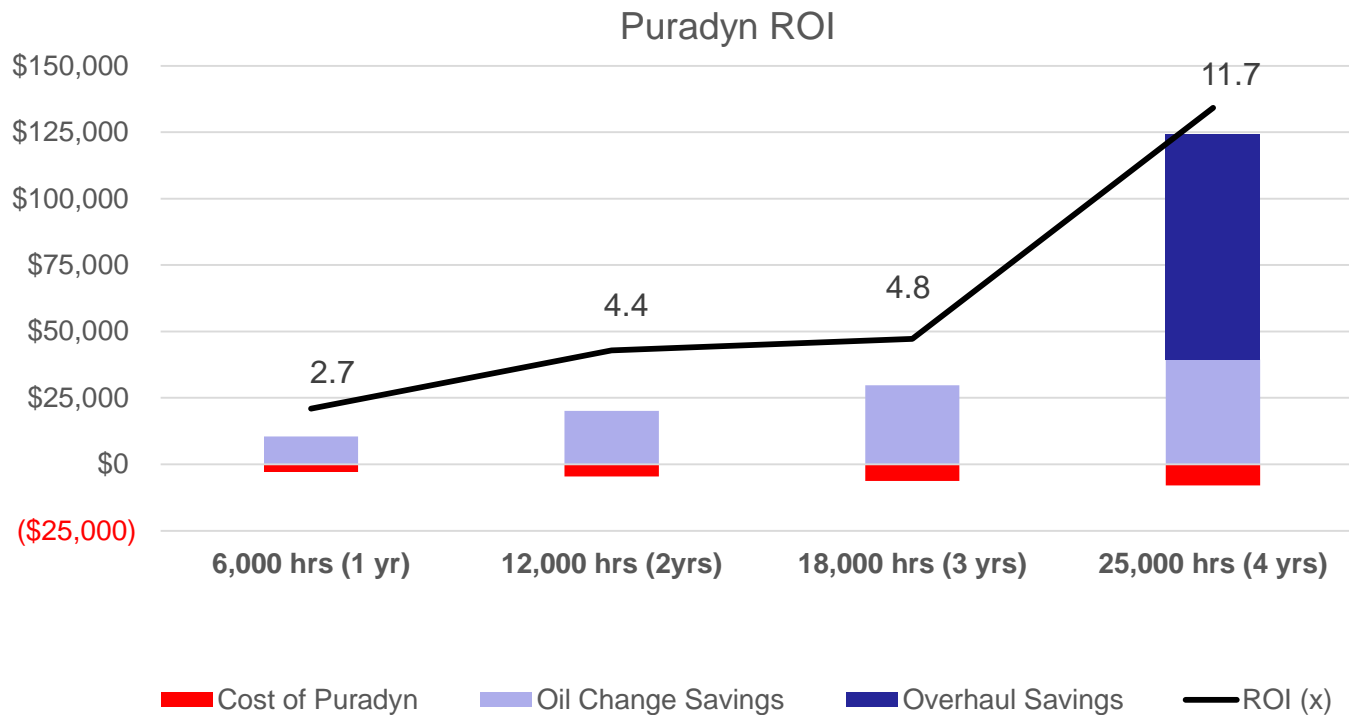
Significant ROI

Example: Caterpillar 3512 in oil drilling application	Before Puradyn	With Puradyn
Oil Change Interval	750 hours	5000 hours
Oil change costs per 6k hrs	\$12.8k	\$2.3k
Savings per 6k hours		\$9.6k
Cost of Puradyn per 6k hrs		\$1.8k
ROI		4.3x
Cost of Top End Overhaul after 25k hrs	\$85k	\$0k
ROI after 25k hrs and skipping Top End Overhaul		11.7x



Savings Add Up

Savings of over \$120,000 per engine have been achieved after 25,000 hours, almost a 12x return on investment





More Testimonials

*We have been able to safely extend our oil drain intervals to **5,000 hours** from our **previous practice of 1,000 hours**. It's a win-win for our customers, the environment, and Scandrill.*

Paul Mosvold
President & Chief Operating Officer
Scandrill, Inc.

*It enables us to extend the oil drain intervals from our old standard of **250 hours to 3,000 hours**. This equates to a savings of 354 gallons of oil or \$3,210 per year. Another boat in our fleet has been able to exceed 65,000 hours prior to overhaul.*

Captain Bill Clark
South Ferry Island
Shelter Island, NY

*We calculate that we've **saved over 60,000 gallons of oil**. The engines remain clean and perform at peak level. We've also performed extensive fuel consumption measurements and consistently achieve a **2% – 3% savings in fuel.**"*

Ross Hare
Hare Express, Inc.
Troy, Michigan



Proven and Guaranteed

- 25+ years in the Bypass Oil Filtration Business
- Will Not Void Manufacturer's Warranty
- Insured Up to \$5M per Liability
- Six-Month Money Back Guarantee
- Five-Year Unlimited Miles/Hours Warranty on Unit
- ISO 9001:2015 Certified





Independent Test Results

Society of Automotive Engineers (SAE) HS 806-95 ISO Fine Dust Test:

- Near 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

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.”

SAE #2000-01-0234

- 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.

- Puradyn Filter - Filtration effectiveness – 0.5 to 1 micron.



Selecting a Puradyn System

Model Number:	MTS-8	MTS-8X12	MTS-12	MTS-24	MTS-40	MTS-60	MTS-240
Maximum Engine Oil Capacity	10 quarts	24 quarts	24 quarts	44 quarts	100 quarts	172 quarts	340 quarts
	9.6 litres	22.7 litres	22.7 litres	41.7 litres	94.7 litres	162.8 litres	322 litres
Flow rate (engines)	6 - 8 GPH 22 - 40 LPH						
Height	8 in	11.1 in	8 in	11.0 in	12.9 in	16.9 in	29.4 in
	20.3 cm	28.2 cm	20.3 cm	28 cm	32.8 cm	43 cm	74.7 cm
Width	7.0 in	7.0 in	9.3 in	9.3 in	10 in	10 in	10 in
	17.8 cm	17.8 cm	23.6 cm	23.6 cm	25.4 cm	25.4 cm	25.4 cm
Depth	6.6 in	6.6 in	8.6 in	8.6 in	10.6 in	10.6 in	11.9 in
	16.8 cm	16.8 cm	21.8 cm	21.8 cm	27 cm	27 cm	30.2 cm

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.





Frequently Asked Questions

How long will it take for this system to pay for itself?

Without factoring in efficiency or engine overhaul, that would depend on the cost and man hours of each oil change. For most larger engines, the Puradyn system pays for itself within 3–6 months.

Can the Puradyn filtration system replace current OEM filters?

No, Puradyn works in conjunction with your OEM oil, air, and fuel filters to protect your engine, and these should be replaced at the same time as your Puradyn filter.

Can Puradyn damage the engine?

No, the Puradyn system acts as a bypass, kidney-style, filtration system which keeps the engine running continuously on clean oil. It will not void your manufacturer warranty if properly used in conjunction with an oil analysis program.

What is the difference between this and the OEM filter?

The most important difference is your OEM filter does not replace base additives, will not remove fluid contaminants, and only filters solids in the range of 5–15 microns. These are the primary reasons for an oil change and demonstrates the value that Puradyn brings by allowing the oil life to be safely extended much longer than with OEM filters and other filtration systems.

Is a trial run possible?

Yes, assuming you conduct regular oil analysis and commit to following Puradyn's Service Protocol during the trial period, Puradyn offers a six-month money back guarantee, as well as a five-year unlimited miles/hours warranty on the unit.

How often do you have to change the Puradyn filter?

Puradyn recommends that you change their filter when you would have normally changed your engine oil, and after an oil sample has been taken for analysis. All OEM filters should be replaced at the same time.

Can I use Puradyn in a natural gas-fired engine?

Yes, but we must know this information in advance. Diesel and natural gas lubricants use different additives and the Puradyn filters are manufactured with the specific additives required for each application.

Can I use Puradyn in synthetic or with an EAL?

Yes, there is no issue at all with synthetics in an engine application. With EALs (especially in Hydraulic applications), it would be best



Summary

The Puradyn Oil Filtration System continuously cleans your engine oil:

- Eliminating up to 90% of oil changes
- Reducing engine maintenance and extending engine life
- Providing payback within months and savings of up to \$120,000 per engine over 25,000 hours



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