

New Duo Forseal Improves Quality, Reduces Emissions

A new design for sealing pump plungers has been developed by Freudenberg-NOK Sealing Technologies.

Duo forseal is a new design for double-acting polytetrafluoroethylene (PTFE) U-Cups that are used on direct injection automotive systems to seal the pump plunger driven by the camshaft.

The universal properties of PTFE make U-cups highly resistant to all types of motor oils and fuels, but the new duo forseal design offers a significantly improved and better performing injection plunger seal, said Torsten Maschke, president, Automotive Sales and Marketing for Freudenberg-NOK Sealing Technologies.

Engines with gasoline direct injection are very efficient but require higher pressures between advanced injection pumps and their corresponding injection nozzles than traditional air intake systems, Maschke said.

The duo forseal makes an indirect contribution to emissions reduction because it is designed for this high pressure load. Additionally, its patented technology contributes directly to reduced emissions through lower leakage rates compared with traditional designs.

The new seal design provides all the technological characteristics of the current model lines, is cost-efficient and offers universal

resistance to all types of fuels, including E100, and can be used for plunger frequencies to more than 200 Hz, Maschke said.

The design is also easy to install due to its symmetrical seal configuration and its leakage rate, which has been minimized below the required specifications of the automobile industry. Furthermore, the duo forseal design's stainless steel spring provides reliable radial sealing forces.

The new PTFE compound used in the duo forseal shows "an excellent abrasion resistance, especially in contact with plungers coated with diamond-like carbon (DLC). It has proven a long-term stability without affecting the coating," Maschke said.

"With an operating life of far more than a billion strokes, the duo forseal injection plunger seal from Freudenberg-NOK offers a level of quality significantly above the standard demanded today," Maschke said.

Freudenberg-NOK Sealing Technologies is the Americas joint venture between Freudenberg and Co. in Germany and NOK Corp. in Japan.

Founded in 1989 under the legal name Freudenberg-NOK General Partnership, Freudenberg-NOK is headquartered in Plymouth and operates more than 20 facilities across the Americas.

WSO to Feature Mozart and Ravel

The Warren Symphony Orchestra's second concert of the season is set for Sunday, Oct. 13, and showcases works by Maurice Ravel, Wolfgang Mozart and Robert Schumann.

The concert, called "Poignancy and Charm," will feature two well-known Detroit musicians – flutist Jeffery Zook and harpist Kerstin Allvin.

"Classical music enthusiasts will recognize them for their work with the Detroit Symphony Orchestra as well as community symphonies in our area," said Lois Jackman, WSO board president.

The WSO has also arranged for

Zook to conduct a master class on the flute at 3 p.m. on Saturday, Oct. 12, at the Evola Music Center, 12745 23 Mile Road, in Shelby Township.

The Sunday concert starts at 3 p.m. in the Macomb Center for the Performing Arts, located at 44575 Garfield Road in Clinton Township.

Tickets are \$23 for adults, with discounts for students and senior citizens. Anyone 18 or younger gets in free. To order tickets, contact the Macomb Center for the Performing Arts box office at 586-286-2222, or visit macombcenter.com.



PRESTIGE Cadillac
FORMERLY RINKE CADILLAC

A Prestige Automotive Group Company



2014 CADILLAC ATS 2.5

2013 NORTH AMERICAN CAR OF THE YEAR

24-MONTH LEASE

\$249⁰⁰*

OR

\$279⁰⁰*

WITH LEASE LOYALTY
\$1,100 DOWN PAYMENT*

WITH NO LEASE LOYALTY
\$0 DOWN PAYMENT*



10,000 MILES PER YEAR • STK# 115905

IT'S TIME - REWARD YOURSELF

2014 CADILLAC CTS
THE ALL NEW



STK# 123364

**NOW IN STOCK
AND READY FOR
IMMEDIATE DELIVERY**

2013 CADILLAC CTS COUPE
ALL WHEEL DRIVE



STK# 115683

WITH LEASE LOYALTY

\$299* OR **\$349***

\$1,800 DOWN PAYMENT
24 MONTH LEASE
10,000 MILES PER YEAR

\$0 DOWN PAYMENT
24 MONTH LEASE
10,000 MILES PER YEAR

**GM EMPLOYEE PURCHASE PRICE \$38,816
MSRP \$42,535**

2014 CADILLAC ESCALADE



STK# 121853

\$649*

WITH LEASE LOYALTY
\$1,100 DOWN PAYMENT*

24 MONTH LEASE • 10,000 MILES PER YEAR

**GM EMPLOYEE PURCHASE PRICE \$65,458
MSRP \$76,315**

2014 CADILLAC XTS



STK# 124573

\$379*

WITH LEASE LOYALTY
\$2,000 DOWN PAYMENT*

24 MONTH LEASE • 10,000 MILES PER YEAR

**GM EMPLOYEE PURCHASE PRICE \$41,536
MSRP \$45,525**

2013 CADILLAC SRX FWD



STK# 652678

\$299*

WITH LEASE LOYALTY
\$2,470 DOWN PAYMENT*

24 MONTH LEASE • 10,000 MILES PER YEAR

**GM EMPLOYEE PURCHASE PRICE \$38,225
MSRP \$39,770**

PRE-OWNED SPECIALS	2008 CADILLAC CTS	\$21,484
	STOCK#: P9018	
	2012 CADILLAC ESCALADE	\$54,990
	STOCK#: P7961	
	2010 CADILLAC SRX	\$27,060
	STOCK#: P8091	
	2011 CADILLAC SRX	\$31,484
	STOCK#: P8095	
	2008 CADILLAC CTS	\$19,990
	STOCK#: P8070	
	2013 CADILLAC CTS	\$32,287
	STOCK#: P7879	
	2013 CADILLAC CTS WAGON	\$33,262
	STOCK#: P8075	
	2012 CADILLAC CTS	\$32,862
	STOCK#: P7953	
	2010 CHEVROLET TRAVERSE	\$23,421
	STOCK#: P8085	
	2012 MERCEDES-BENZ C-CLASS	\$28,977
	STOCK#: P9006	

AUTO BODY SPECIAL

PrestigeAutoBodyDetroit.com

**WE SERVICE
ALL GM CARS**

Prestige Automotive Group
BODY SHOP HOURS: M-F 8AM-6PM

Value bucks are for labor only. Must present coupon at time of write-up. See dealer for details. Offer expires on 12/31/13.

Take FIFTY BUCKS Off

\$50 OFF

COLLISION WORK!
We work directly with your insurance company

**FREE SERVICE
LOANER CAR**

PLUS, WE OFFER:

• CONVENIENT APPOINTMENTS • TOP DOLLAR FOR YOUR TRADE • CONTACT US FOR A FREE ESTIMATE ON ALL COLLISION REPAIRS!



TAP THAT APP SAVE 10%* DOWNLOAD TODAY!

Use your Apple Device

Use your Smartphone Device

Any GM Car Service*



**Our Showroom Is Now Open
SATURDAYS 10 A.M.-4 P.M.**



Showroom Hours: Mon. & Thurs. 8:30 a.m. • 9 p.m. Tue., Wed., & Fri. 8:30 a.m.-6:00 p.m. Sat. 10 a.m.-4 p.m.

8333 EAST 11 MILE ROAD • I-696 & VAN DYKE • 888-548-8939

If traveling west on I-696, exit Hoover, follow Service Drive to Prestige Cadillac.

If traveling east on I-696, exit Van Dyke; take the second bridge past Van Dyke over the expressway to Prestige Cadillac.

Visit our website: www.PrestigeCadillac.com for all our specials

*For qualified GM Employees plus tax on rebates, first payment, tax on payment, tax on down payment, plate, title and doc fee with approved credit. Must qualify for tier S or 1 credit through preferred lender. Pricing includes all factory rebates. No security deposit required. Sale limited to availability during program period. Picture may not represent actual vehicle being sold. To qualify for Cadillac lease loyalty you must have a 1999 or newer Cadillac lease with a scheduled lease end date before September 30, 2014. Prices subject to change due to advertising deadlines. Programs expire October 31, 2013.

HIBACHI BUFFET

**CALL FOR RESERVATIONS
CATERING • CARRY-OUT
DELIVERY AVAILABLE LARGE ORDERS
We Serve Asian & American Cuisine**

**STEAK • PRIME RIB
SEAFOOD • CRAB LEGS
HIBACHI GRILL
FULL SUSHI BAR**



Try Our New Buffet RATED 4 STARS

**33431 VanDyke at 14 Mile
(Same Shopping Center as Walmart)
586-264-7000
Fax: 586-264-8080**

LUNCH BUFFET

Mon-Fri • 11am-3:30pm **\$7.99**

DINNER BUFFET
Mon-Thurs • 4-9:30pm **\$13.99**
Fri, Sat & Sun • 4-10pm **\$14.99**

BRUNCH BUFFET
Sat & Sun • 11am-3:30pm **\$9.99**
Price Excludes Beverages

**15% Off
FOOD BILL**

Up to 12 People

Not valid Saturday. One offer per table with paper.
Not valid holidays. Not valid with any other offer or discount.
Valid at HIBACHI BUFFET.



INDEPENDENCE AUTO REPAIR

**Full Service
★ We Have Tires ★**

American Owned & Operated
We do all factory
scheduled maintenance!

OPEN:
Mon-Fri
7:30 am-6pm
Sat.
8am-3pm

FREE Shuttle Service within a 10 mile radius
FREE Courtesy Check on any vehicle
FREE Coffee to everyone



28775 Van Dyke • Warren
12 & Van Dyke
586-751-4440

48330 Van Dyke • Shelby
South of 22 Mile
586-991-0440

15075 32 Mile Rd. • Romeo
Corner of 32 Mile & Powell Rd.
586-336-4440

Trans. Flush
w/ cleaner & additive.
Includes 17 qts. transmission fluid.
OR Coolant Flush
w/ cleaner & additive.
Inclu. 3 gal. of Coolant
\$99.99
In-store offer good through 10-31-13

**Full Service Oil,
Lube & Filter
Change**
\$16.99
w/ Tire Rotation
\$22.99
In-store offer good through 10-31-13

**Front End
Alignment**
\$39.99
**4-Wheel
Alignment**
\$79.99
Includes pad installation
Camber & Caster
Adj. Additional
In-store offer good through 10-31-13

**Ceramic
Brake
Special**
\$99.99
Includes pad installation
In-store offer good through 10-31-13

**10%
OFF Parts**
to All GM
Employees
w/ Badge
In-store offer good through 10-31-13