2020 PERA News

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2020 Convention Greenville, SC Has been postponed to 2022

Join us in 2021 in St. Louis September 21-24, 2021 Live by Loews



Check out this exciting brand-new hotel in the heart of St. Louis across from the Cardinals' new ball-park. https://www.loewshotels.com/live-by-loews-st-louis-missouri

And while you're at it, take a look at everything St. Louis has to offer: https://explorestlouis.com/



ELECTION

With the convention cancelled this year, elections for new directors and a treasurer will be held by email ballot. This ballot will go out to the principle or dues contact for each remanufacturer member in September. The By-Laws stipulate that only remanufacturer members have a vote.

This year we will be electing three new directors for three year terms. Leaving the board will be Larry Haswell of Larry Haswell & Associates, Luis R. Garcia or Safety Auto Parts Co. and Ben Steine of Tri Star Engine Supply.

A treasurer will be elected to a two year term since this is the year President Matt McGraw of AER Manufacturing moves to the "advisory" position, Vice President Randy Bauer of Jasper Engines moves up to President and Treasurer Harry "Skip" Hartley of Impaco moves up to Vice President. PERA officers serve a two year term in each office and automatically move up the chairs.

If you have an interest in serving on the Board or as Treasurer, please contact Joe Polich at joepolich@pera.org or at 817-243-2646. You can also contact Matt McGraw at mattmcgraw@aermfg.com or at 972-418-6499.

There is not a lot of demand on your time as a director. The Board meets in person once per year at the annual convention and holds several conference calls annually. Other business is conducted via email.

The Treasurer is responsible for keeping PERA's financial records and approves check payments online. Joe is responsible for "keeping" the books and sends the payment and deposit supporting documentation to the Treasurer for his records.

Questions regarding these positions and duties can be directed to Joe or Matt at the above contact info.

Directory Corrections

A sincere apology needs to go out to Allen Woods & Associates, Asian Engine Parts LLC and Devereaux Jones Company LLC. Although they are listed in the Supplier alphabetical listing, I failed to list them with the Manufacturer's Reps. Somehow a full page was left out of the directory. You should have received this missing page in a separate email sent out June 23rd. BUT...... Devereaux Jones has an address change and Asian Engine Parts has corrected a phone number and email addresses. The email address change is rather subtle so pay close attention. A

new page 47 is included at the end of this newsletter.

Webinars & Member News

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Webinars & Sponsorship

11 Webinars for 2020

We have a full webinar schedule for 2020. This series has become very popular and we currently have a waiting list in case of any cancellations.

January 15: Taylor Friend, Jasper Engines

The 3.6L GM Engine Family

February 19: Chuck Lynch, MAHLE Aftermarket Inc.

Valve Train Material

March 18: Ron Sledge, King Engine Bearings

Problem Solver Solutions

(engine failures)

April 15: Cancelled

May 20: Matt Meyer, RMC

Engine Testing & Other Equipment

June 17: Randy Neal, CWT Industries

New Developments in Balancing

July 15: MAHLE Aftermarket

Turbos

August 19: Charles Barnett, Dura-Bond Bearings

Machining Powdered Metal Valve

Seats

September: Lake Speed, Jr., Total Seal Piston

Rings

October 12 Rottler Manufacturing

TBD

November 11: Mike Osterhaus, Melling Engine Parts

TBD

December 9: Randy Neal, CWT Industries

Over/Under Balancing

Registrations for our webinars are averaging over 280 with a high of 455! They are open to the entire industry from PERA to ERI to AERA and we even get some OE people attending.

2020 Sponsors:

We have the maximum of eight fantastic sponsors for the 2020 webinar series! A big thank you goes to:

CWT Industries

The ERI Group

Dura-Bond Bearing Company

Hastings Manufacturing Company

King Engine Bearings

Mahle Aftermarket, Inc.

QualCast, LLC

Rottler Manufacturing

For further information, contact:

Joe Polich

joepolich@pera.org

817-243-2646

New member:

Total Seal Piston Rings 22642 N. 15th Avenue Phoenix, AZ 85027 (623)587-7400 (800)874-2753

Fax: (623)587-7600

Company email: order@totalseal.com

www.totalseal.com

Matt Hartford, President

Lake Speed, Jr. VP Sales & Marketing

lake@totalseal.com Keith Jones, Technical

keithj@totalseal.com

Piston rings; custom and build-to-order ring sets as well as piston ring assembly tools.



JASPER Expands Availability of Chrysler 3.6L Pentastar Engine Family

Jasper Engines & Transmissions recently announced the expanded availability of the Chrysler 3.6L Pentastar engine line. This engine is now available for the 2011-2014 Volkswagen Routan.

Also included is a series of new updates to the Chrysler 3.6L Pentastar engine family.

- 100% installation of new late-design rockers/cam followers, improving longevity of the bearing assembly and the rocker.
- Installation of JASPER-designed pins in the block, locking the cylinders together under heavy load. This prevents the cylinders from moving, which can lead to head gasket scuffing, a common cause of failure.
- Upgraded D-shaped head gaskets increase fire ring pressure for improved sealing under heavy use.
- Block is machined for 100% installation of steelthreaded inserts for head bolts, increasing strength over the original aluminum design, which pull out.

"We're excited about the multiple improvements we've made to the original design of the Pentastar platform, said JASPER Quality Production Support Manager, Alex Ernst. "We've worked closely with our suppliers to engineer and develop components, as well as implement manufacturing processes that will increase the longevity, and durability, of these engines, and provide our customers with the quality they are accustomed to with JASPER products."

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Cloyes Supplies Crankshaft Sprocket for 2020 Chevrolet Corvette



Cloyes is manufacturing an essential engine component for one the most sought-after vehicles: the 2020 Chevrolet Corvette C8 at its Paris, AR plant. Often referred to as the "mid-engine Corvette", the 2020 model delivers 495 horsepower and 470 lb.-ft. of torque,

making it the most powerful production Stingray ever, according to General Motors (GM).

The sprocket is manufactured from SAE 1144 billet steel and has a 22-tooth cut to the ISO-606 Roller Sprocket specification. The sprocket teeth are induction-hardened for durability and has a custom six-tooth involute spline on the front hub to drive the oil pump impeller.

"The receipt of this business reconfirms the level of quality, reliability, and capability that Cloyes offers its global automotive OE and aftermarket customers," said Steve Fairbanks, vice president of manufacturing for Cloyes. "All Cloyes products are extensively tested and verified to ensure that they meet OE specifications. With a deepseated commitment to customer success, Cloyes drives innovation and manufactures products that enhance engine performance and provide peace of mind to manufacturers, drivers, and professional technicians."

In additional news, <u>Cloyes continues to expand</u> its variable valve timing chain kit product line with its newest kit for General Motors 2.8-liter, 3.0-liter, and 3.6-liter V6 engines, often referred to as the GM High Feature engine (HFV6). This kit provides coverage for more than 5.4 million vehicles ranging from 2007-2019. The kits and components are available for popular makes and models such as Cadillac CTS, Chevrolet Camaro, Chevrolet Impala, GMC Acadia and more.

"VVT components are naturally part of the timing system and it makes sense for Cloyes to offer VVT system components that work with our current timing system components," said Jason Thompson, vice president of engineering and product development for Cloyes. "Cloyes' expertise in modern timing systems, combined with its manufacturing and quality standards, resulted in the company developing VVT actuators and solenoids that work as good as or better than OE units in the most demanding applications."

VVT solenoids are 100% tested during production, according to Cloyes. Test parameters include fitment, leakage, maximum oil flow, and holding duty cycle. Components also are put through real-world testing environments.

Additional test parameters include adjustable angle, leakage, locking pin functionality and friction.

Timing system replacement is typically performed due to the detection of unstable operation. In that situation, and even in preventative maintenance situations, stress is experienced by all the timing system components. For these reasons, and the fact that timing component cost is a fraction of the labor costs required to replace the components, it is recommended to replace all components when making the repair.



New VP of Sales at S.B. International, Inc.

SBI is pleased to announce Phillip Data as the new Vice President of Sales, effective October 2019.

Phillip Data has 25 years of experience covering various industries, with key positions in sales management, legal, and finance fields. He joined SBI in December of 2018 as the



Sales Director after previously holding the National Sales Manager position at King Engine Bearings and Modern Silicone Technologies.

With a Bachelor of Business Administration degree in Marketing and Management from the University of Cincinnati, his

strong communication skills with customers, and knowledge of the aftermarket industry, showed Phillip Data to be the best person to expand growth & business strategies for SBI as Vice President of Sales.



GM Gen IV 5.3L Class-1 Engine Now Available

Jasper Engines & Transmissions has announced the release of the GM Gen IV 5.3L Class-1 engine, with an available DOD/AFM Deleted option. Although this unit cannot be currently sold in California, it is currently available for the following applications elsewhere:

- 2007-2009 Chevrolet Tahoe, Suburban, and Silverado
- 2007-2009 GMC Sierra, Yukon

AFM (Active Fuel Management) and DOD (Displacement on Demand) refer to cylinder de-activation. GM used cylinder de-activation as a fuel economy measure.

"JASPER offers this engine due to customer complaints of excessive oil consumption, lifter failure or cam failure on (continued on page 4)

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their original engine, plus the need for extra power," said Brad Boeglin, JASPER Research and Development group leader. "We removed the DOD/AFM lifter and valley plate and replaced them with non-DOD/AFM options, and a Class-1 Non-AFM/DOD camshaft. This engine option provides up to 53 additional horsepower and 20 extra lb-ft of torque.

"A Diablo i3 tuner is included with the purchase of this engine to reprogram the ECM, and remove the command for the DOD/AFM," added Boeglin. "The tuner has preloaded settings available for different octane fuels, transmission shift time/pressure adjustments, tire size, and more."

The GM Gen IV 5.3L Class-1 DOD/AFM Delete engine is covered by a nationwide, transferable parts and labor warranty of up to three years, or 100,000 miles. Full warranty disclosure is available on the Jasper website or upon request.



Dorman Releases New Parts

Dorman has released two valve covers that fit nearly 1.5 million Chrysler, Dodge, Jeep and Mitsubishi vehicles (part #264-925), and approximately 750,000 General Motors vehicles (part #264-929). These valve covers were formerly only available from the original manufacturer, but they are now available in the aftermarket to help retailers, distributors and installers to service more repair opportunities with reliable solutions.

Another set of new releases this month are two diesel exhaust fluid pumps for 6.6L engines on certain Chevrolet and GMC vehicles from 2010 to 2016 (part #904-607), and 6.7L and 3.2L engines on certain Ford vehicles (part #904-609), which are designed to directly replace original equipment pumps on more than 1.4 million vehicles in operation. These DEF pumps are Dorman-engineered, with convenient installation hardware, providing installers with a new preferred aftermarket alternative.



Elgin Releases New Ford Diesel Engine Parts

Elgin Industries continues to expand its original equipment and aftermarket engine parts range for leading medium- and heavy-duty engines. Now available through Elgin distributors is an extensive portfolio of OE-quality replacement components for Ford 6.7L diesel engines, including 406 CID "Scorpion" engines, model years 2011 -2019.

The following new Elgin parts are available immediately for Ford 6.7L 32-valve diesel engines commonly found in F-250, F-350, F-450 and F-550 Super Duty trucks:

Camshaft, Lifters/Tappets, Push Rods, Sprockets, Valves – Intake and Exhaust, Valve Guides, Valve Locks, Valve Springs, Valve Spring Retainers, Valve Stem Oil Seals, Head Bolts, Main Bearing Cap Bolts, Rocker Arms, Intake Manifold – Lower, Exhaust Manifold – Right and Exhaust Manifold Heat Shield.



ACL and Calico Team Up To Accelerate the Performance Engine Building Industry

Long-term bearing industry players, ACL RACE Series Performance Engine Bearings (ACL) and Calico Coatings, have collaborated to offer users an additional option in performance engine building.

Both companies have exemplary reputations for quality, performance, and knowledge in their areas of specialization. Their alliance culminates in the release of ACL offering a range of Calico coated ACL RACE Series Performance Engine Bearings. The extensive range covers the US, European and Sport Compact markets. Applications are contained in the Coated Performance Engine Bearing Application Guide 2020. https://www.aclraceseries.com/images/catalog.pdf

Calico has been coating ACL bearings for individual customers for over 15 years with great success using proprietary coating solutions specifically engineered to withstand the extreme conditions of today's high-performance engines.

"This joint effort with ACL has resulted in a more extensive product offering that will make a tremendous impact on performance engine building," said Jennifer Jenkins, General Manager of Calico Coatings.

Dennis Fox, Director of Sales and Marketing at ACL Distribution, Inc. said "The obvious synergy between the two companies led to the formation of this partnership and the fully integrated product offering. We are holding good stocks of all items in our distribution center in Grand Rapids, Michigan and can ship product the same day an order is placed."

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LKQ Corp. Reports Second Quarter Results

LKQ has provided an update on its second quarter 2020 operating performance through May. While the COVID-19 pandemic continues to have a negative impact on its global operations, the effect through May 2020 has not been as significant as expected, said LKQ. Revenue is tracking ahead of internal expectations, with second quarter to date parts and services organic revenue down approximately 25% when compared to the same quarter in 2019, with April and May monthly revenues down approximately 30% and 20%, respectively.

"Each of our segments has experienced weekly sequential revenue improvement since mid-April and we exceeded our internal revenue projections, which speaks favorably to the strength of our businesses and our team's ability to perform in this challenging operating environment. With economies reopening in recent weeks, we are cautiously optimistic that we can capitalize on the momentum we've built through May to finish the quarter strong," said Dominick Zarcone, president and CEO of LKQ Corp.

Although revenues were down, cost structure actions have contributed to an operating profit for April and May. Cash management activities have been effective as the company generated positive free cash flow in April and May, which was used to pay down over \$250 million in debt and build cash balances during this two-month period.

"Our teams have done a tremendous job over the last few months to adapt to the rapidly changing conditions, remain disciplined in managing the cost structure and protect the Company's capital through a focus on working capital management," stated Varun Laroyia, executive vice president and chief financial officer.

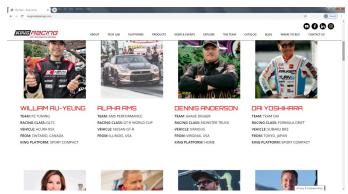
As of March 31, 2020, the company's balance sheet reflected net debt of \$3.5 billion. The net leverage ratio was 2.5x, and the company had approximately \$1.9 billion in total liquidity. As of May 31, 2020, the Company had net debt of \$3.1 billion and total liquidity of approximately \$2.2 billion.

On March 26, the company withdrew its 2020 annual guidance, and temporarily suspended its share repurchase program to focus on preserving capital due to the continued uncertainties related to COVID-19 and its impact on the business. This second quarter 2020 update and the quarter-to-date information disclosed in this release may not be representative of the full quarter or full year results. The company will provide its next business update with the normally scheduled disclosure of second quarter results on July 30, 2020.



New Racing Website for King Engine Bearings

At the height of the racing season, King Engine Bearings, a leading manufacturer of innovative high performance engine bearings, is launching its new racing website featuring an overhauled design and attributes. The new website, www.kingracebearings.com, contains technical information on King race bearing materials, special geometric features, technical articles and more.



The site is mobile friendly, modern, and gives users quicker and better access to information on King's latest racing solutions and developments at the moment they are introduced. It also enables extensive coverage, via the Blog section, on the various activities that King and its partners and ambassadors engage in throughout the year. Race engine builders, engine enthusiasts, performance parts dealers, racers and fans will find the site easy to use, relatable and approachable with an optimal user experience regardless of the device being used.

The site offers unique new features including a platform breakdown for easy location of your favorite racing category; a "Choose your bearing" section for quicker part number identification; extensive technical data on all the new products, such as King's pMaxKote™ polymer coated, GPC and TFC bearings, and even dedicated pages for various applications, whether for U.S., Japanese or European makes. The new website is social media friendly and allows sharing items on YouTube, Facebook, and Instagram.

"We are excited to launch this new website for the racing community, and feel that it reflects our affinity and profound understanding of high performance engines in a variety of platforms. It is engaging, versatile, and offers better flow of information for anyone using it", says Meytal Snir Gal, King VP of Marketing, adding that "it's an opportunity for King, celebrating our 60th anniversary, to better project our continuing efforts for innovation and excellence as the engine bearing specialists."

The new website launch coincides with a recent and important upgrade to King's online catalog (www.king-catalog.com). Its substantial improvements include becoming responsive for all platforms.

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Spotlight





Total Seal Piston Rings

Over 50 years ago, Joe Moriarty invented the Gapless piston ring and founded Total Seal. Today, Matt Hartford carries on Joe's legacy as he leads the company, which now creates new, innovative piston ring designs and installation tools.

From gas ported piston rings to 409 Chevy ring compressors, Total Seal offers more than gapless piston rings. And, Total Seal goes beyond just the racing and high performance market. Utilizing our in-house manufacturing resources, Total Seal supplies many Diesel, Aviation, Marine and Restoration customers with specialty, short run custom or hard to find parts. We even make rings in various materials from ductile iron to tool steel, and we provide specialty coatings for unique applications and liner-less blocks.

If it takes a piston, we can make a ring for it. Our short run manufacturing capabilities allow us to produce custom rings in reasonable quantities along with short lead times. Plus, we have experienced technical experts that are ready to help you unlock the potential of your engines.

Please call or email us with any questions at 623-587-7400 or info@TotalSeal.com. We'd love the opportunity to help.



Muscle Car Repair Kits

Elgin Industries has introduced an extensive range of original equipment-quality, front-end steering system repair kits covering classic muscle cars from General Motors and Ford.

Each Elgin front-end steering kit includes the high-quality replacement components needed to help restore safe, precise steering and handling. Available kits include:

- GM A-Body, X-Body & G-Body (inner and outer tie rods, sleeves, idler arm and center link)
- GM Truck (inner and outer tie rods, sleeves, idler arm and center link)
- Ford Mustang (tie rod ends, sleeves and idler arm)

"Our steering repair kits and other repair solutions for

muscle cars are already extremely popular among classic car enthusiasts," said Rick Simko, sales and marketing manager, Elgin Industries. "Rather than needing to look up each individual component, repair professionals and do-it-yourselfers can restore the entire steering system by ordering a single part number."

Elgin also offers complete front-end rebuild kits and bushing kits covering 1960s and '70s era muscle cars from Ford, GM and MOPAR.

For a complete list of available products, contact your performance parts supplier or click on the "eCatalog" link at http://www.elginind.com.



<u>Champion Brands Filling Aftermarket Demand with 12 oz.</u> Clear PET Bottles

Champion Brands, LLC, a leader in blending and packaging chemicals, lubricants, and additives, is actively seeking orders for 12oz., clear, Polyethylene Terephthalate (PET) round bottles to be filled on their AOKI "AL-500LL-50S" production line.

These clear PET round bottles are in stock with a 24/410 neck finish and are a popular choice in the private label industry. These bottles, made in Clinton, Missouri by Champion Brands, LLC., are high clarity, flexible, impact-shatter resistant and are easy to fill with numerous cap types available

Champion's AOKI "AL-500LL-50S" production line is a very efficient machine and produces almost zero scrap plastic. Bottle runs are typically at 23bpm which comes out to 33,000 bottles in 24 hours, or 230,000 bottles per week. Just shy of 1 million bottles per month.

Champion can formulate and custom package private label products for your brand including mineral, semi-synthetic and full-synthetic engine and motor oils, fuel treatments, brake fluids, hydraulic fluids, automotive additives and chemicals, and more. Their product portfolio is one of the largest in the industry. https://www.championbrands.com/private-label/

With an inhouse state-of-the-art chemical lab and talented R&D team, Champion can formulate the world's most advanced, engineering-approved fluids that exceed API, IL-SAC, ACEA, JASO and other industry and OEM standards plus maximize your business segment growth and experience.

For more information call 660-890-6231.

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SCHAEFFLER

Schaeffler Wins A 2019 GM Supplier Of The Year Award

Schaeffler was named a GM Supplier of the Year by General Motors during a virtual ceremony honoring the recipients of the company's 28th annual Supplier of the Year awards on Wednesday, June 24.

During the event, GM recognized 116 of its best suppliers from 15 countries that have consistently exceeded GM's expectations, created outstanding value or introduced innovations to the company. The recognition is for supplier performance in the 2019 calendar year.

"Our suppliers play a key role in delivering the products, services and experiences our customers deserve – and these award-winning suppliers went above and beyond our expectations," said Shilpan Amin, GM vice president, Global Purchasing and Supply Chain. "We also believe it's important at this point in time to thank our entire supply base for their efforts the last few months to mitigate the impacts of COVID-19," added Amin. "Not only have we been able to safely restart our manufacturing operations, our suppliers played a key role in assisting our initiatives to increase the supply of ventilators and personal protection equipment (PPE) for frontline health care workers to help save lives and keep communities safe."

The Supplier of the Year award winners were chosen by a global team of GM purchasing, engineering, quality, manufacturing and logistics executives. Winners were selected based on performance criteria in Product Purchasing, Global Purchasing and Manufacturing Services, Customer Care and Aftersales, and Logistics.

"This award is a testament to the passion and commitment that each Schaeffler associate puts into every product and system solution we supply to our partners at General Motors, so I am enthusiastically accepting this honor on behalf of the entire Schaeffler team," said Schaeffler Americas CEO Marc McGrath. "Our partnership with General Motors is a cornerstone of our automotive business in the Americas and throughout the world, and we look forward to further strengthening this bond by continuing to supply the Schaeffler products and technologies that help GM solve the complex transportation challenges of today and tomorrow."



Chrysler 5.7L Hemi MDS-Delete Engine Now Available

Jasper Engines & Transmissions recently announced the availability of the Chrysler 5.7L Hemi MDS-Delete engine. This engine is currently not for sale, or use, in California. It is available for the 2009-2014 Ram 1500 in all other states.

Multi Displacement System (MDS) refers to cylinder deactivation as a fuel economy measure. Once the vehicle reaches highway speed, the MDS deactivates four of the engine's eight cylinders.

"JASPER offers this engine due to original design issues with the MDS lifters, or solenoid failures," said Brad Boeglin, JASPER research and development group leader. "This engine option includes a Non-MDS camshaft, 16 Non-MDS roller lifters with updated bearing assemblies, and four MDS solenoid block-off plugs."

"A Diablo Predator 2 tuner is included with the purchase of this engine to reprogram the ECM, and remove the command for the MDS," added Boeglin. "The tuner has preloaded settings available for different octane fuels, transmission shift time/pressure adjustments, tire size, and more."

"The Chrysler 5.7L Hemi MDS-Delete engine is covered by a nationwide, transferable parts and labor warranty of up to 3 years, or 100,000 miles. Full warranty disclosure is available on our website or upon request," stated Boeglin.



Production Engine
Remanufacturers Association

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Machine Pistons.

Territory: AL, AR, LA, GA, FL, MS, NC, SC, TN & VA.