



richmond refinery newsletter, june 2019

richmond today

human energy®

keeping things running

By Scott Smith



On a daily basis, the Richmond Refinery produces gasoline that fuels our cars, jet fuel that powers commercial airplanes and diesel that fuels delivery of our next-day packages.

We are also the only facility on the West Coast that manufactures lubricating base oils, the main components in essential products that reduce friction between moving parts which are found in everything from cars and trucks to industrial and agricultural equipment, machinery and much, much more.

Located within the refinery complex, the Richmond Lubricants Plant turns the base oils we make into high-quality finished products that consumers and businesses use such as industrial and engine oils, transmission oils, hydraulic oils, coolants and greases.

The refinery works with other Chevron business units to develop innovative solutions to improve how we produce and blend base oils. This helps us meet the needs of our customers – including automakers – who are looking for high-quality base oils that meet evolving fuel economy standards and deliver better performance.

I am proud to be part of the team that manufactures premium base oils and the role we play in supplying high-quality products that are used by consumers here in California, up and down the West Coast and around the world.

Scott Smith is the Manager of Base Oil Manufacturing for Chevron Lubricants.

mantener las cosas en movimiento

Por Scott Smith

Todos los días, la Refinería de Richmond produce gasolina para nuestros automóviles, combustible para jets que impulsa aviones comerciales y diésel para hacer posible la entrega de paquetes de un día para otro.

Las instalaciones de Richmond también son las únicas en la Costa Oeste que elaboran aceites lubricantes: componentes principales de los productos esenciales que reducen la fricción entre las piezas móviles que se encuentran en todo, desde automóviles y camiones, hasta equipo agrícola e industrial, maquinaria y muchas cosas más.

La Planta de lubricantes de Richmond, ubicada en el complejo de la refinería, convierte los aceites básicos que elaboramos en productos acabados de alta calidad que los consumidores y negocios usan como aceites industriales y de maquinaria, aceites de transmisión, aceites hidráulicos, refrigerantes y grasas.

La refinería trabaja con otras unidades comerciales de Chevron para desarrollar soluciones innovadoras para mejorar la forma en que producimos y mezclamos los aceites base. Esto nos ayuda a satisfacer las cambiantes necesidades de nuestros clientes, incluyendo fabricantes de autos que buscan aceites base de alta calidad que satisfagan las normas cambiantes de la economía de combustible y ofrezcan un mejor rendimiento.

Me siento orgulloso de ser parte del equipo que elabora aceites base premium y la función que desempeñamos en suministrar productos de alta calidad usados por los consumidores de California, de toda la región de la Costa Oeste y todo el mundo.

Scott Smith es gerente de manufactura de aceite base de Lubricantes Chevron.



what we do

Founded in 1902 and operating on 2,900 acres, the Richmond Refinery processes about 250,000 barrels of oil each day into the energy products that help keep California, the country and the world on the move. In this month's newsletter, we learn about one of those product streams: base oils. The Richmond Refinery has a facility (Richmond Lube Oil Plant or RLOP) that makes base oils and a facility (Richmond Lubricants Plant) to turn base oils into finished products for consumers and the marketplace.

step 1: product supply

The Richmond Refinery is a unique facility in that we get 100% of our oil by ship from the Long Wharf. The refinery does not receive oil by rail or pipeline. Prior to production, Chevron team members work to select specific types of oil that are just right for making the premium base oils that we deliver to customers.

step 2: refining process

Production starts in the crude unit where oil is separated into different fractions of hydrocarbons. We then apply Hydrocracking and ISODEWAXING technology – a revolutionary process invented in Richmond – to remove essentially all undesirable sulfur and nitrogen molecules and transform the remaining hydrocarbons into high-quality base oil.

step 3: blending and finishing

Base oil, which is clear as water at this stage, is transferred via a pipeline to our lubricants plant, and by ship to lubricant plants around the world, for blending and finishing. Additives, which give lubricants their dark color, are introduced to make consumer products like motor oil, transmission fluids, coolants, engine and industrial oils and grease.

step 4: product delivery

Products are packaged for shipment to retail outlets including Walmart, Costco and Sam's Club in California and neighboring states. We also ship products to professional installers like XpressLube, Speedee Oil Change, Chevron stations and your local auto dealer. The Chevron family of brands includes Delo, Havoline, ISOCLEAN and Techron.

fast facts



20,000

barrels of base oil produced daily at the Richmond Lube Oil Plant



30 million

gallons of finished lubricants shipped annually from the Richmond Lubricants Plant



60%

amount of premium base oil production worldwide using Chevron's ISODEWAXING technology

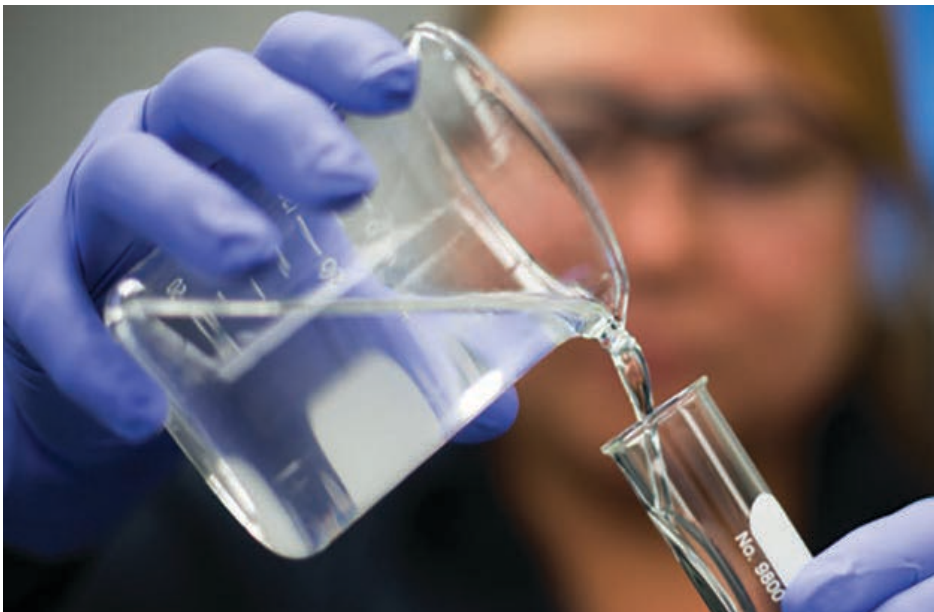
“Quality finished lubricants reduce friction and provide engine protection against wear, corrosion and rust. Cleaner engines last longer, perform better and use less fuel. Not only will your car need less maintenance when using quality lubricants but it’s also better for the environment.”

Natalie Woodard, Operations Manager, Richmond Lubricants Plant



helping lower emissions

The top selling product made at the Richmond Lubricants Plan is a Delo brand heavy duty engine oil specifically formulated for 2017 greenhouse gas (GHG 17) compliant diesel engines designed to lower emissions and improve fuel economy. Every day our technical experts at the Richmond Technology Center are working to develop ever cleaner products to help our customers and the environment.



more sustainable packaging

Chevron is committed to reducing plastic waste and selecting more environmentally friendly materials for our packaging. Our PitPak, a six-gallon package for professional motor oil installers, reduces plastic use by 89%. Since the launch of PitPak Chevron has eliminated 2.8 million pounds of plastic from the waste stream. That's the equivalent weight of over 800 Toyota Camrys!



more than just for your car

Chevron produces a full line of lubricants, transmission fluids, gear oils, greases, hydraulic oils and coolants to protect practically every moving part of your equipment and vehicle including:



commercial transportation

Premium products for bumper-to-bumper protection.



passenger vehicles

Delivering quality to customers for more than 100 years.



marine lubricants

Protecting seafaring vessels from stem to stern.



industrial and off-highway equipment

Extreme protection for extreme conditions.

Q & A

a conversation with



Alan Davis, Refinery General Manager*

Q How long have you worked at Chevron?

I've worked for Chevron 30 years – starting in June of 1989. My undergraduate degree is in Chemical Engineering. I actually interviewed with the Richmond Refinery but ended up accepting an offer with a refinery in El Paso, Texas.

Q What other jobs have you held with Chevron?

I have been in refineries my whole career, mostly on the operations side of the business. I started out as a process engineer (providing technical guidance on operating units), worked as a Shift Supervisor (coordinating operations across a facility) and then had a number of leadership positions at our facilities in Pascagoula, Salt Lake City and Kapolei (about 30 miles from Honolulu) before coming to Richmond in 2015.

Q How has the refining business changed over the years?

The basics of refining are relatively the same. What has changed most is the technology we use to optimize and improve our operations. Today we have very intelligent computer systems that control the production process. Our smart systems use data to look at multiple touch points for the entire refinery. We also use advanced technologies to measure the thickness of our piping systems.

Q What are some of the highlights of your work here in Richmond?

It has to be the Refinery Modernization Project which is a generational investment in the future of this facility. Creating a newer, safer, cleaner refinery is important not only for our business, but it will also benefit the Richmond community and the entire Bay Area. I want to recognize Kory Judd for his leadership on this project. Kory is moving to Australia to lead Chevron's operations in that country.

Q What are you most excited about in your new role as Refinery General Manager?

The people. We have a great team here at the refinery. They care about this facility and the community. People are really dedicated to doing their jobs well and keeping the refinery running safely and reliably every day. We live and raise our families in the area and want to protect the community.

Q Are facilities like the Richmond Refinery still important in 2019?

Absolutely. We produce the products people use every day: they get us to work and across the country and around the world to visit family. Our work enables the benefits of modern life – improving lives and powering us forward. We constantly must challenge ourselves to the highest standards and honor our commitment to operate responsibly with trust and integrity.

Q How does Chevron work with the City of Richmond?

We've been part of the community for more than 117 years and we want to do our part to make the city successful. I look forward to a continued productive relationship with the City of Richmond and the community.

Q What's your life like outside of work?

We have 4 kids, 4 grandkids and a very large extended family so I spend a lot of time with family goings on. I love photography and with all the family activities over the years I have ended up with about 50,000 photos, which I am slowly organizing. I am also active in my local church and have done things like Cub Scout Den Leader with my wife (I am an Eagle Scout). I also like to volunteer at community events through our community affairs team here at the refinery. I survived cancer about 10 years ago and I have become very interested in evidence-based nutrition and health. I mostly eat a whole plant food diet.

*Editor's Note: Alan Davis succeeded Kory Judd as the General Manager of the Richmond Refinery on June 1, 2019.



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community corner

11th annual third of july celebration

Come celebrate America's birthday a day early, on July 3 at the historic Craneway Pavilion. The City of Richmond and the Oakland Symphony are joining forces again to host this free event for the whole family featuring live music and a dazzling fireworks display over the Bay. The evening's highlight is a concert by the Oakland Symphony. Food and drinks will be available for purchase. Seating is limited and will be available on first come, first served basis. Attendees are encouraged to bring their own blankets and chairs. Now in its 11th year, the Independence Eve Celebration has become one of the most popular ways to celebrate our nation's birthday in the Bay Area. Chevron is proud to support this event which showcases our city and brings us together.

décima primera celebración anual del tres de julio

Venga y celebre el cumpleaños de Estados Unidos un día antes, el 3 de julio, en el histórico Craneway Pavilion. La Ciudad de Richmond y la Sinfonía de Oakland unen nuevamente sus fuerzas para organizar este evento gratuito para toda la familia con música en vivo y fuegos artificiales sobre la bahía. La función más importante de la noche será un concierto especial de la Sinfonía de Oakland. Habrá comida y bebidas a la venta. Los asientos están limitados y estarán disponibles en el orden de llegada. Se anima a los asistentes a que lleven sillas y mantas. Ahora en su décimo primer año, la Celebración en vísperas de la independencia se ha convertido en una de las formas más populares de celebrar el cumpleaños de nuestro país en el Área de la Bahía. Chevron se enorgullece de apoyar este evento, el cual destaca a nuestra ciudad y nos une a todos.



Independence Eve Celebration

Wednesday, July 3
Doors open at 6:30 pm;
Showtime 8:00 pm

Craneway Pavilion, 1414 Harbour Way South. Patrons are encouraged to take public transportation, including the new Richmond ferry, to the venue.

Celebración en vísperas de la independencia

Miércoles 3 de julio
Las puertas abren a las 6:30 p.m.;
presentación a las 8:00 p.m.

Craneway Pavilion, 1414 Harbour Way South

Se anima a los visitantes a que usen transporte público, incluyendo el nuevo ferry de Richmond, para ir a la celebración.