



Pacific Fluids, LLC

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Preface

*Manufacturer and Distributor of
Functional Fluids.*

Location

We are ideally located at the hub of the Pacific Northwest. We are about 140 miles north of Portland, Oregon; 150 miles south of Vancouver, B.C.; 300 miles west of Spokane and at the gateway to Alaska and the Pacific Rim countries.

Capabilities

Our fleet of trucks and our rail and water capabilities enable us to provide our customers with prompt, economic deliveries in the northwest states, Canadian provinces, Alaska, Hawaii and the Pacific Rim countries.

Over twenty employees at Pacific Fluids with more than 200 total years of experience in the petroleum and

chemical field. We continue to train and develop our employees through on-the-job training, formal education, trade journals and workshops.

Service Offerings

*Product Distribution
Blending/Compounding
Quality Control/On-site Laboratory
Analysis
Import/Export
Transportation
Terminal
Packaging
Petroleum Counseling
Marine Technical Visits*

Petroleum Division

The business segments of the petroleum division are divided into the following areas:

Wholesale Distribution –

Supporting and marketing branded petroleum products to a variety of commercial and industrial consumers, including transportation, aerospace, forestry, utilities, manufacturing, municipalities and marine customers.

Process Base Oil Sales – Sales to defoamer manufacturers, agricultural suppliers, ink manufacturers and specialty lubricant compounders.

Lubricants – Pacific Fluids own branded product line consists of engine oils, industrial oils, hydraulic

oils, gear oils, way oils, tractor hydraulic fluids, transmission fluids, chain bar oils, arctic oils, concrete form oils, etc. All products are formulated with high-quality base stocks and premium additive packages to provide excellent value.

Ecogreen Re-Refined Motor Oils –

The Ecogreen line of quality lubricants were developed by Pacific Fluids to utilize re-refined base stocks. These base stocks have been processed to remove all unwanted contaminants using the most advanced re-refining technology. These API approved base oils are then blended with new additives to make finished products. The ecogreen line of products meets or exceeds all industry requirements and are API and OEM licensed insuring quality.

Marine Division

Pacific Fluid's terminal has been involved in delivering marine lubricants to deep-draft vessels in the mid 1970s'. At that time we delivered on behalf of only one major oil company. In only a few short years this business grew to be quite substantial and the continued growth dictated the need for more constant management. Deliveries are made from Coos Bay, Oregon to Prince Rupert, B.C. and Alaska.

The business segments of the marine division are:

Marine Storage and Terminalling

– Pacific Fluids has over 20,000 square feet of covered storage. For bulk product storage, tanks range from 4,300 to 25,000 gallons, including heated tanks as required.

Marine Blending – Pacific Fluids blends marine lubricants for many of the major oil companies as well as for many commercial accounts.

Land Deliveries – Pacific Fluids fleet consists of five truck/trailer tanker combinations, three semi-tank trucks, one tank wagon and two dry vans for delivering products to the deep-draft vessels when they come alongside docks.

Water Deliveries – We have access to vessels which make deliveries to ships at anchor and to docks that are not accessible to our truck fleet. These deliveries are made in Puget Sound from Olympia to Port Angeles, and Vancouver, B.C.



Operations
Receiving and Distribution

Rail Cars

Pacific Fluids has existing rail car siding adjacent to the west property line. We are serviced by Tacoma Beltline through both Union Pacific and Burlington Northern and can accommodate jumbo rail cars. We have eight rail car locations and a steam line capable of heating four rail cars.

Tankwagons

We have on local bulk tank wagon with a capacity of 4,400 gallons

Truck and Trailer/Semi-Trailer

We have five trucks and trailers and three semi-trailers with about 53,000 pound capacities each.

Package Trucks

We have one bobtail truck and one semi-truck to handle package goods.

Marine Vessels

We have access to vessels, which make deliveries to ships and docks in the greater Puget Sound area.

Barges

We have access to several waterfront locations in Tacoma and Seattle to receive and distribute products for various ports in the world.

Quality Control

We require a certificate of analysis on all of the products that we receive. All products received and delivered have the typical physical test performed including viscosity, flash, API gravity, water content, particle analysis and sensory test unless prepackaged in drums, pails or quarts. These values are compared against the product specifications.

Operations
Storage and Terminalling

Tanks

We have twenty-three 25,000 gallon tanks, sixteen 10,000 gallon tanks, and various smaller tanks totaling over 900,000 gallons of storage capacity at our facilities.

Rail Siding

We have eight existing rail spots with steam heat dedicated to four

locations. We have terminalling for the rail siding in four locations and have a spill prevention plan and rail containment system in place.

Warehouse

We have approximately 20,000 square feet of warehouse space.

Quality Control

We maintain the integrity of the bulk products by taking daily tank readings.

Integrity of packaged goods are maintained in covered storage areas or protected by metal covers on drums as required.

All products received and delivered have the typical physical tests performed including viscosity, flash, API gravity, water content, particle analysis and sensory tests unless prepackaged in drums, pails or quarts. These values are compared against the product specifications.

Laboratory capabilities include flash, API Gravity, Specific Gravity, Viscosity @ 40 C, V Viscosity @ 100 C, Viscosity Index, Total Base Number (TBN), Total Acid Number (TAN), particle analysis, water content, atomic absorption for additive metal analysis, distillation, cold crank simulation, foam separation testing, demulsification and infrared (FTIR) analysis.

Operations
Blending and Compounding

Raw Materials

We have access to most of the major band-name products (Chemicals and Base Oils). We have capabilities to receive products by rail car and tank trucks.

Additives

We currently terminal products for major additive manufacturers and have long-standing relationships with other manufacturers, which provide us access to all of the major brand name additives. We also have capabilities to solubilize viscosity improver crumb.

Batch Blends

We provide substantial blending capabilities with seven blend kettles: 500 gallons; 1,200 gallons, 2,000 gallons; 7,600 gallons and three 9,000 gallon tanks. We have stainless steel batch blending capacity of 5,700 gallons in a computerized weight calibrated

system. We have lightening mixers in the 2,000 gallon and 5,000 gallon tanks and Pulsair mixers in the balance of the tanks. We blend utilizing a strict computerized system.

Quality Control

All blended products are tested to verify they are within the specification range. We utilize our on-site laboratory to verify the physical tests along with additive content. In the even we require further analysis, we utilize Spectra Petroleum Laboratories in Tacoma, Washington.

Operations
Packaging

Bulk

We have top and bottom bulk oil-loading capabilities. We have access to two local weight scales within one mile of our plant to ensure quantities loaded. We can also load ISO tanks and tote tanks at our facility.

Tote Bins

Pacific Fluids owns approximately 80 500-gallon tote bins that can be used for bulk products.

Drum

We have access to metal and plastic drums on a local basis. We can utilize new or reconditioned drums. Companies we utilize include Palex Containers in Seattle and Myers Drum in Portland.

Pail

We have access to metal and plastic five-gallon pails on a local basis. We use Ropak Packaging and Northwest Container, all of which are located in Seattle.

Gallon

We have access to metal and plastic one-gallon containers on a local basis. We use J.F. Shelton, Rheem, Spokane Plastics and Northwest Containers.

Quart

We have access to plastic one-quart containers. We use ABC Packaging in Vancouver, B.C., Spokane Plastics and Northwest Container.

Quality Control

Integrity of our packaged products include laboratory analysis, visual inspection, pressure testing and random sampling.