



LUBRICANTS

KEEPING THE WORLD
RUNNING SMOOTHLY®

HEAVY DUTY PRODUCTS



Built for those who get it
done. Backed by those who
make sure you do.

▶ phillips66lubricants.com



**Not all jobs are created equal.
Good thing we offer hundreds of
formulations for every challenge
that comes your way.**

Every second of downtime is a missed opportunity. That's why Phillips 66® Lubricants creates products that keep the job running smoothly in demanding conditions.

With hundreds of formulations designed for thousands of applications, we reduce friction not just across engines and equipment, but entire operations. Our lubricants are engineered by experts who understand how work actually gets done.

From construction sites to long-haul routes, our heavy duty applications keep your equipment humming and your schedule steady.

CK-4 AND FA-4 Certified Oils

Test Results



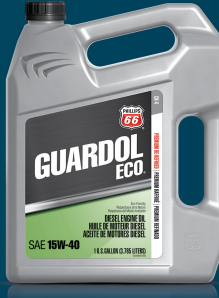
FULL SYNTHETIC

CK-4
GUARDOL XT®
0W-40, 5W-40, 15W-40

CK-4
GUARDOL EURO®
5W-30

FA-4
GUARDOL FE®
10W-30

CK-4
GUARDOL ECT®
10W-30, 15W-40



SYNTHETIC BLEND

ENVIRONMENTAL

CONVENTIONAL

CK-4
GUARDOL FLEET EC®
10W-30, 15W-40

CK-4
GUARDOL NG-D®
15W-40

CK-4
GUARDOL ECO®
15W-40

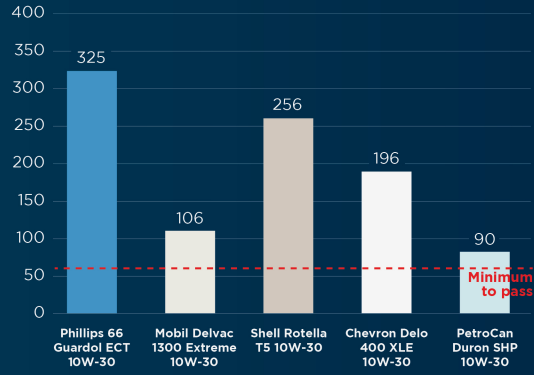
CK-4
GUARDOL TT®
15W-40

We put every product to the test to ensure superior performance. Like our API CK-4 and FA-4 engine oils, which endure millions of miles of intense evaluation to improve fuel efficiency and minimize emissions.



GUARDOL ECT® 10W-30
Oxidation Control
PDSC Oxidation Test

5X LONGER OXIDATION CONTROL
than the ACEA limit



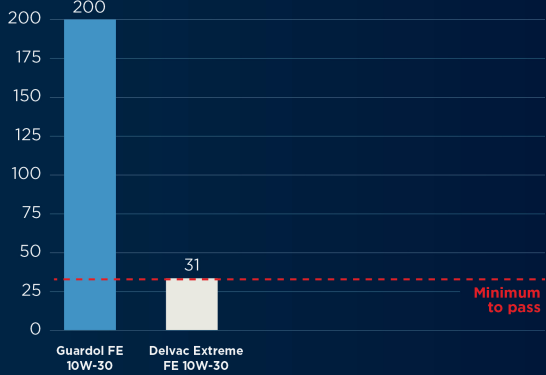
Oil	Value
Phillips 66 Guardol ECT 10W-30	325
Mobil Delvac 1300 Extreme 10W-30	106
Shell Rotella T5 10W-30	256
Chevron Delo 400 XLE 10W-30	196
PetroCan Duron SHP 10W-30	90

Phillips 66® is clearly the industry leader in oxidation control. This test takes oil samples and pressurizes them, holding them at constant conditions until oxidation occurs.



GUARDOL FE® 10W-30
Wear Protection
DD13 Scuffing Test

6.45X LONGER PROTECTION
than Mobil Delvac Extreme FE 10W-30



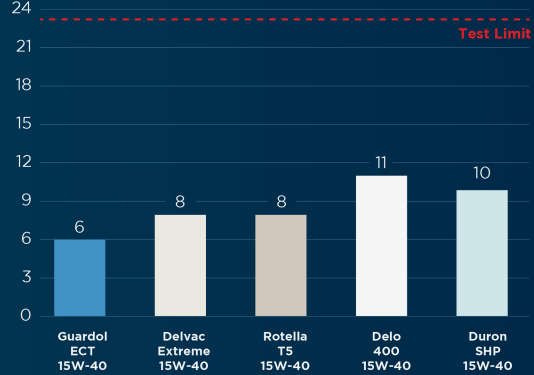
Oil	Value
Guardol FE 10W-30	200
Delvac Extreme FE 10W-30	31

At 200 hours, Guardol FE 10W-30 showed no scuffing. This is a fired-engine test with all emissions controls, which runs for 200 hours or until scuffing is detected, whichever comes first.



GUARDOL ECT® 15W-40
Corrosion Control
ASTM D6594 HTCBT

3.3X BETTER CORROSION CONTROL
than the Cummins/API CK-4/FA-4/MB 228.31 test limit



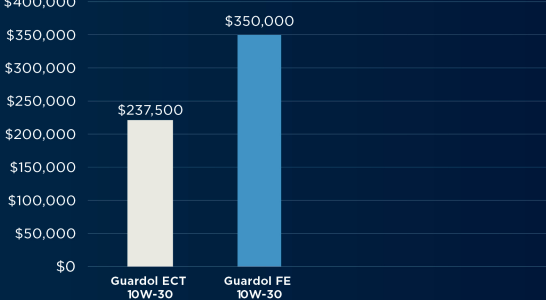
Oil	Value
Guardol ECT 15W-40	6
Delvac Extreme 15W-40	8
Rotella T5 15W-40	8
Delo 400 15W-40	11
Duron SHP 15W-40	10

Corrosion control that's superior to leading competitors. This test evaluates the rate at which the metals in cam followers and bearings corrode.



GUARDOL ECT® AND FE® 10W-30
Fuel Efficiency
Annual Fuel Savings

UP TO 1.5% IN FUEL SAVINGS
for Class 7-8 trucks



Oil	Value
Guardol ECT 10W-30	\$237,500
Guardol FE 10W-30	\$350,000

Leading fuel savings with superior wear protection. These are the projected annual fuel savings (which account for differences in cost of oil) when switching from a 15W-40 to our 10W-30 oil for a fleet of 500 vehicles averaging 100,000 miles per year with an average diesel cost of \$3.25 per gallon and 45,000-mile oil drain intervals.

That data matters. It proves your protection is superior or equal to leading competitors in every category. And with our extended FA-4 warranty, you can confidently move forward with Guardol as your choice of diesel engine oil.



Construction

Specialty Lubricants

Construction

HYDRAULICS

POWERDRIVE® SYNTHETIC ALL-SEASON TO-4 FLUID

Premium, synthetic multifunctional fluid for transmissions, final drives, and hydraulic systems where Caterpillar TO-4 requirements are specified.

POWERDRIVE® FLUID

High-performance multifunctional fluid for transmissions, final drives, and hydraulic systems where Caterpillar TO-4 requirements are specified.

Dedicated hydraulic systems only:

SYNCON® AW HYDRAULIC FLUID

Premium-quality, synthetic anti-wear hydraulic fluid for industrial and mobile equipment operating at extreme temperatures.

POWERFLOW® HE HYDRAULIC OIL

High-viscosity-index, anti-wear hydraulic oil for mobile equipment operating in cold climates and under wide temperature variations.

MEGAFLOW® AW HVI

High-viscosity-index, anti-wear hydraulic oil for industrial and mobile equipment operating in cold climates or in locations with wide temperature variations.

MEGAFLOW® AW HYDRAULIC OIL

High-quality, anti-wear hydraulic oil for industrial and mobile equipment. High-performance hydraulic oil formulated to provide excellent wear protection, oxidation resistance, and rust and corrosion protection for hydraulic systems operating under a wide range of conditions.

ENGINE CRANKCASE

GUARDOL ECT® 15W-40

API CK-4, synthetic blend diesel engine oil with exclusive wear protection.

GUARDOL FLEET EC® 15W-40

API CK-4 diesel engine oil for low-emission engines.

POWER-D® 15W-40

API CI-4 PLUS universal engine oil.

TRANSMISSION

POWERDRIVE® SYNTHETIC ALL-SEASON TO-4 FLUID

Premium, synthetic multifunctional fluid for transmissions, final drives, and hydraulic systems where Caterpillar TO-4 requirements are specified. Ideal for extreme cold-weather applications as well as year-round service in most climates.

POWERDRIVE® FLUID 30

High-performance multifunctional fluid for transmissions, final drives, and hydraulic systems where Caterpillar TO-4 requirements are specified.

DIFFERENTIALS AND AXLES

MP GEAR LUBE

Multipurpose, API GL-5/MT-1 gear lubricant for truck axles with hypoid gear sets, and some heavy duty manual transmissions.

POWERDRIVE® FLUID 50

High-performance multifunctional fluid for differentials, final drives, and heavy duty manual transmissions where Caterpillar TO-4 requirements are specified.

COOLANT SYSTEM

GUARDOL® OAT COOLANT/ANTIFREEZE

Heavy duty nitrate free OAT extended life coolant/antifreeze.



GREASE POINTS

MULTIPLEX® FS 220

Premium quality, synthetic, extreme-pressure, lithium complex grease developed for industrial and automotive equipment operating at extreme temperatures or over a wide temperature range.

MULTIPLEX® FS 460

Multipurpose, synthetic, extreme-pressure lithium complex grease for industrial, mining, and mobile off-road equipment operating in wet conditions and extreme temperatures or over a wide temperature range.

OMNIGUARD® FS XD5

Premium, synthetic, extreme-pressure calcium sulfonate grease with 5% moly. Excellent resistance to water washout, rust and corrosion.

OMNIGUARD® 220

Multipurpose, extreme-pressure, corrosion-preventive calcium sulfonate grease for use in equipment operating in wet or corrosive environments.

OMNIGUARD® XD5

Premium, extreme-pressure, calcium sulfonate grease with 5% moly for use in off-road equipment manufactured by Caterpillar, Terex, Komatsu Dresser, LeTourneau, P&H, and others.

DYNALIFE® 220

Multipurpose, extreme-pressure lithium grease used in a wide variety of industrial and automotive applications where operating temperatures and loads are moderate.

MULTIPLEX® 220

Multipurpose, extreme-pressure lithium complex grease for high-load applications. Ideal for bearings, joints and chassis lubrication points operating in dusty, demanding jobsite conditions.

MULTIPLEX® 460

Premium-quality, extreme-pressure lithium complex grease for heavily loaded construction, mining, and industrial equipment; also used as a chassis grease.

MULTIPLEX® 600

Multipurpose, extreme-pressure lithium complex grease formulated with heavier base oils for heavily loaded equipment. Recommended for pins, bushings and slow-moving components exposed to shock loads and harsh environments.

MEGAPLEX® XD3

High performance, multipurpose, extreme-pressure lithium complex grease (3% molybdenum disulfide) developed to satisfy the severe lubrication requirements of construction and off-road equipment.

MEGAPLEX® XD5

High-performance, multipurpose, extreme-pressure lithium complex grease (5% molybdenum disulfide) for off-highway trucks and heavy equipment.

Specialty Lubricants for Construction

Air Tool/Rock Drill Applications

CP OIL

Low-viscosity, corrosion-preventive oil for air tools and other pneumatic equipment lubricated through air-line lubricators.

MAROK®

High-quality, adhesive, extreme-pressure lubricant for air tools, rock drills, jackhammers, pavement breakers, and other pneumatic equipment.

ROCK DRILL OIL

Adhesive, extreme-pressure lubricant for air tools, rock drills, jackhammers, pavement breakers, and other pneumatic equipment.

Gear Oil Options

EXTRA DUTY GEAR OIL

Premium, extreme-pressure gear oil with “clean gear” additive technology for enclosed gear drives.

GLW

Premium-quality, extreme-pressure industrial gear oil developed for the lubrication of heavily loaded enclosed gear drives operating under severe service conditions.

GEAR SHIELD®

Viscous, adhesive, residual compounded gear lubricant cut back with a volatile, non-chlorinated solvent.

OPEN GEAR LUBE

Viscous, tacky, residual compounded gear lubricant cut back with a volatile, non-chlorinated solvent.

Digging. Hauling. Constructing. Mining. Drilling. Whatever tools the job calls for, we offer the right specialty products for every piece of heavy equipment on all projects.

Specialty Arctic Applications

GUARDOL XT® DIESEL ENGINE OIL

API CK-4 full synthetic diesel engine oil available in 0W-40 and 5W-40 viscosity grades for reliable performance in cold weather and arctic operating conditions. Delivers excellent wear protection and helps extend drain intervals.

POWERDRIVE® SYNTHETIC ARCTIC TO-4 FLUID

Synthetic multigrade Caterpillar TO-4 fluid for off-highway equipment in arctic climates.

Hydraulic Specialty Fluid

POWERFLOW™ NZ HYDRAULIC OIL

Inherently biodegradable, nontoxic, zinc-free, anti-wear hydraulic oil for use in equipment operating in environmentally sensitive areas.

POWERFLOW™ NZ HE HYDRAULIC OIL

Inherently biodegradable, high-efficiency, high VI, zinc-free anti-wear hydraulic oil; separates from water.

FIREBIRD® AW HYDRAULIC OIL

Environmentally responsible, anti-wear hydraulic oil formulated with a blend of high-quality conventional and re-refined base stocks.

Specialty Final Drive

POWERDRIVE® FLUID 6000

Final Drive and Axle Oil (FDAO) for Caterpillar off-highway equipment where the Caterpillar FD-1 specification is required.

SYNCON® FINAL DRIVE FLUID

Full-synthetic, high-performance lubricant for use in final drives and axles of Caterpillar off-highway equipment, providing improved gear and bearing life. Meets performance of Caterpillar FD-1 specification.

PHILSYN® MEP-EL

Full-synthetic, extreme-pressure (EP) gear lubricant with advanced micropitting protection for heavily loaded gears and rolling-element bearings in gearboxes. Approved for GE (Wabtec), D50E35C (ISO 320) and D50E35E (ISO 680).

Other Specialty Products

SYNCON® R&O OIL

Synthetic PAO-based circulating oil for severe-service circulating systems and lightly loaded gear drives, offering excellent oxidation resistance and protection across a wide operating temperature range.

MULTIPURPOSE R&O OIL

Rust- and oxidation-inhibited circulating oil with mild anti-wear protection for compressors, turbines, lightly loaded gear drives, bearings, pumps, and industrial equipment.





Agriculture

Specialty Lubricants

Agriculture

ENGINE CRANKCASE

GUARDOL ECT® 15W-40

API CK-4 synthetic blend diesel engine oil with exclusive wear protection.

GUARDOL FLEET EC® 15W-40

API CK-4 diesel engine oil.

POWER-D® 15W-40

API CI-4 PLUS universal fleet engine oil recommended for EGR diesel engines, and older, non-EGR diesel engines.

COOLANT SYSTEM

GUARDOL® OAT HD COOLANT/ANTIFREEZE

Heavy-duty nitrate free OAT extended life coolant/antifreeze.

TRANSMISSION, FINAL DRIVE AND HYDRAULICS

MP GEAR LUBE (80W-90, 80W-140)

Multipurpose, API GL-5/MT-1 gear lubricant for truck axles with hypoid gear sets and heavy-duty manual transmissions.

POWERTRAN® FLUID

Multipurpose fluid for farm tractors and equipment requiring one lubricant for the transmission, final drive, wet brakes, and hydraulic systems.

POWERTRAN® XP

Multipurpose, shear-stable fluid for farm tractors and equipment requiring one lubricant for transmission, final drive, wet brakes, and hydraulic systems.

SYNCON® EP PLUS GEAR OIL (ISO 460)

Synthetic, extreme-pressure gear lubricant for enclosed gear drives and heavily loaded bearings operating in severe service and extreme temperatures.

GREASE POINTS

MULTIPLEX® FS 220

Premium quality, synthetic, extreme-pressure, lithium complex grease developed for industrial and automotive equipment operating at extreme temperatures or over a wide temperature range.

OMNIGUARD® 220

Multipurpose, extreme-pressure, corrosion-preventive calcium sulfonate grease for use in equipment operating in wet or corrosive environments.

DYNALIFE® 220

Multipurpose, extreme-pressure lithium grease used in a wide variety of industrial and automotive applications where operating temperatures and loads are moderate.

MULTIPLEX® 220

Multipurpose, extreme-pressure lithium complex grease for high-load applications. Ideal for bearings, joints and moving components exposed to dirt, moisture and long seasonal operating hours.

MULTIPLEX® 600

Multipurpose, extreme-pressure lithium complex grease formulated with heavier base oils for heavily loaded equipment. Recommended for slow-moving, high-load components requiring strong adhesion and lasting protection in wet or dirty field conditions.

MULTIPLEX® 460

Multipurpose, extreme-pressure lithium grease formulated with a polymer and tackiness additive to improve retention and resist water washout.

Specialty Lubricants for Agriculture

Smaller-HP, Gasoline-Powered Equipment

SHIELD® CHOICE SYNTHETIC BLEND MOTOR OIL

Premium, synthetic blend motor oil with exclusive wear protection.

Implements With Gear Boxes Requiring an AGMA EP Gear Lubricant

EXTRA DUTY GEAR OIL

Premium, extreme-pressure gear oil with “clean gear” additive technology for heavily loaded, enclosed gear drives under moderate to severe conditions.

Older Tractors Requiring API GL-1 Gear Lubricant

MULTIPURPOSE R&O OIL

Rust- and oxidation-inhibited circulating oil with mild anti-wear protection for compressors, turbines, lightly loaded gear drives, bearings, pumps, and industrial equipment.

Equipment With Dedicated Hydraulic Oil Reservoir

MEGAFLOW® AW HYDRAULIC OIL

High-quality, anti-wear hydraulic oil developed for use in a wide variety of industrial and mobile hydraulic system applications.

MEGAFLOW® AW HVI HYDRAULIC OIL

High-quality, high-viscosity-index anti-wear hydraulic oil used in industrial and mobile equipment operating in varying temperatures.

POWERFLOW® NZ HYDRAULIC OIL

High-quality, zinc-free, anti-wear hydraulic oil used in industrial and mobile equipment operating in environmentally sensitive areas.

FIREBIRD® AW HYDRAULIC OIL

Environmentally responsible anti-wear hydraulic oil formulated with a blend of high-quality conventional and re-refined base stocks.

Other Specialty Products

WHITE OIL

NSF H1-registered, premium food grade mineral oil. Meets FDA requirements for use in applications where direct, indirect, or incidental contact with food may occur such as dust suppressants for grains and animal feed, food processing equipment, drip oil for deep well water pumps, and more.

PUMP OIL

Highly refined, paraffinic mineral oil for drip-feed lubrication of deep-well turbine water pumps.



Peak season doesn't pause. That's why our agricultural lubricants ensure your equipment is ready when the field is. When the harvest calls and long hours loom, you need products that will keep up with the demands any season can throw your way.





Trucking

Specialty Lubricants

Trucking

DIESEL ENGINE

Premium Full Synthetic Options:

GUARDOL XT® 0W-40, 5W-40, 15W-40 DIESEL ENGINE OIL

 **GUARDOL® EURO 5W-30 DIESEL ENGINE OIL**

Premium Synthetic Blend Options:

GUARDOL ECT® 10W-30, 15W-40 DIESEL ENGINE OIL

 **GUARDOL FE® 10W-30 DIESEL ENGINE OIL**

Synthetic Blend Mainline Options:

GUARDOL FLEET EC® 10W-30, 15W-40 DIESEL ENGINE OIL

GUARDOL® NG-D 15W-40 HEAVY DUTY ENGINE OIL

Conventional Option:

GUARDOL TT® 15W-40 DIESEL ENGINE OIL

Environmental Option:

GUARDOL ECO® 15W-40 DIESEL ENGINE OIL

CNG/LNG ENGINE

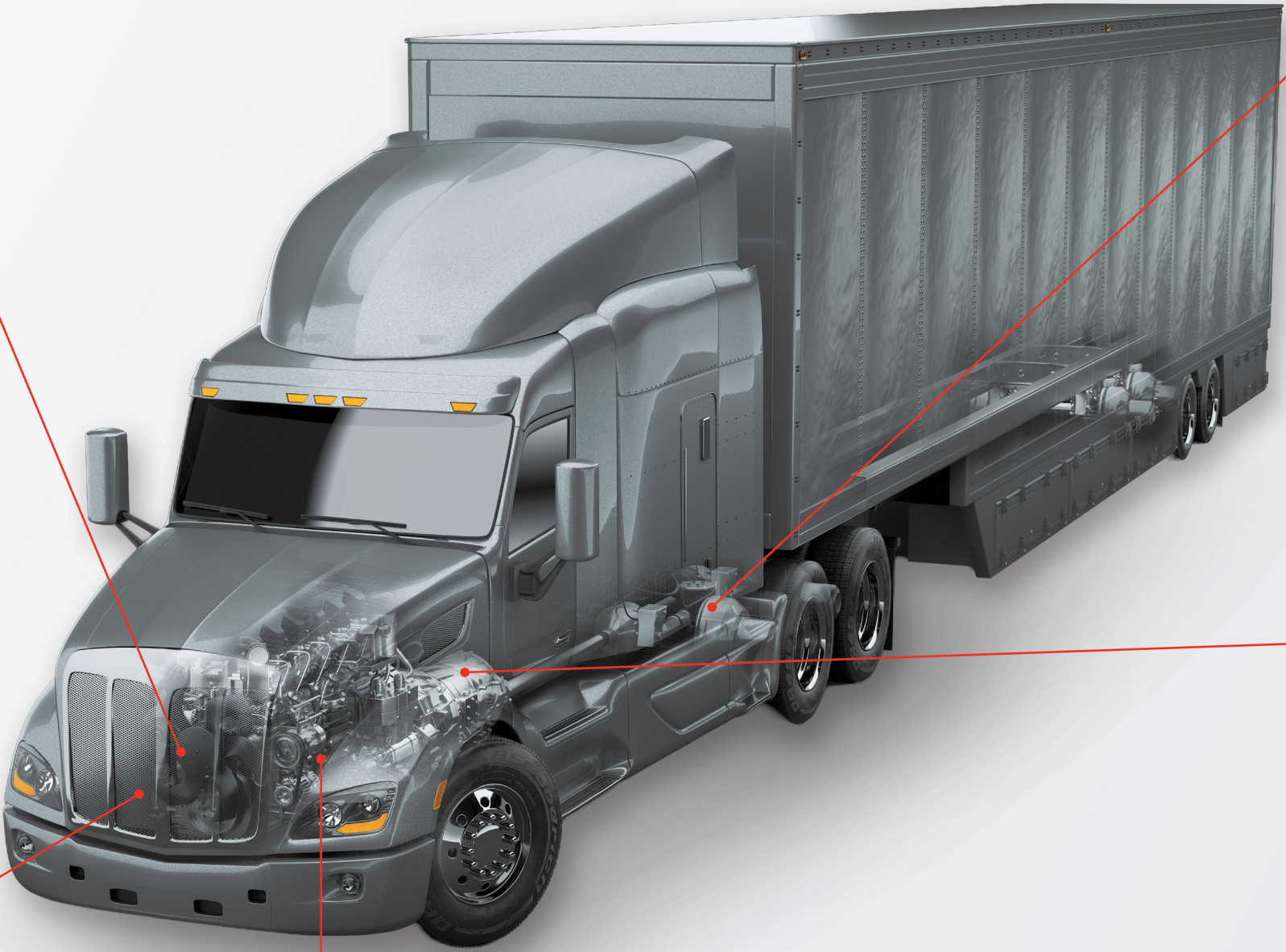
GUARDOL® NG-D

High-quality synthetic blend, dispersant-detergent engine oil with anti-wear additives for vehicular natural gas and diesel engines.

COOLANT SYSTEM

GUARDOL® OAT HD COOLANT/ANTIFREEZE

Heavy duty nitrate free OAT extended life coolant/antifreeze.



DIFFERENTIAL/DRIVE AXLE

TRITON® SYNTHETIC GEAR LUBE

Synthetic, multi-purpose gear lubricant for truck axles with hypoid gear sets operating in all conditions.

 **TRITON® SYNGEAR FE 75W-90**

Premium synthetic gear lubricant engineered for improved fuel economy, extended gear life and all-season performance in drive axles and differentials.

TRITON® SYNLUBE LDO

Synthetic long-drain gear lubricant designed for extended service intervals, durable wear protection and long-haul differential performance.

MP GEAR LUBE

Multi-purpose, API GL-5/MT-1 gear lubricant for truck axles and some heavy duty manual transmissions in trucks and buses.

MANUAL STEERING GEAR

 **TRITON® SYNTHETIC GEAR LUBE**

Synthetic, multi-purpose gear lubricant for truck axles with hypoid gear sets operating in all conditions.

MP GEAR LUBE

Multi-purpose, API GL-5/MT-1 gear lubricant for truck axles and some heavy duty manual transmissions in trucks and buses.

MANUAL TRANSMISSION

TRITON® SYNTHETIC TRANSOIL 50

Full synthetic, SAE 50, API MT-1 manual transmission fluid, for extended drain, all-season performance in trucks and buses.

T5X® HEAVY DUTY SAE 50

Heavy duty monograde diesel engine oil for heavy duty manual transmissions in trucks and buses.

 **TRITON® SYNTHETIC MTF**

Full-synthetic, fuel-efficient transmission lubricant for heavy duty commercial manual transmissions operating in extreme temperatures and/or extended service intervals.

AUTOMATIC TRANSMISSION

Allison:

TRITON® HD ATF

Full synthetic, heavy duty automatic transmission fluid for use in truck and bus transmissions operating under severe service or extended drain intervals.

TRITON® 668 ATF

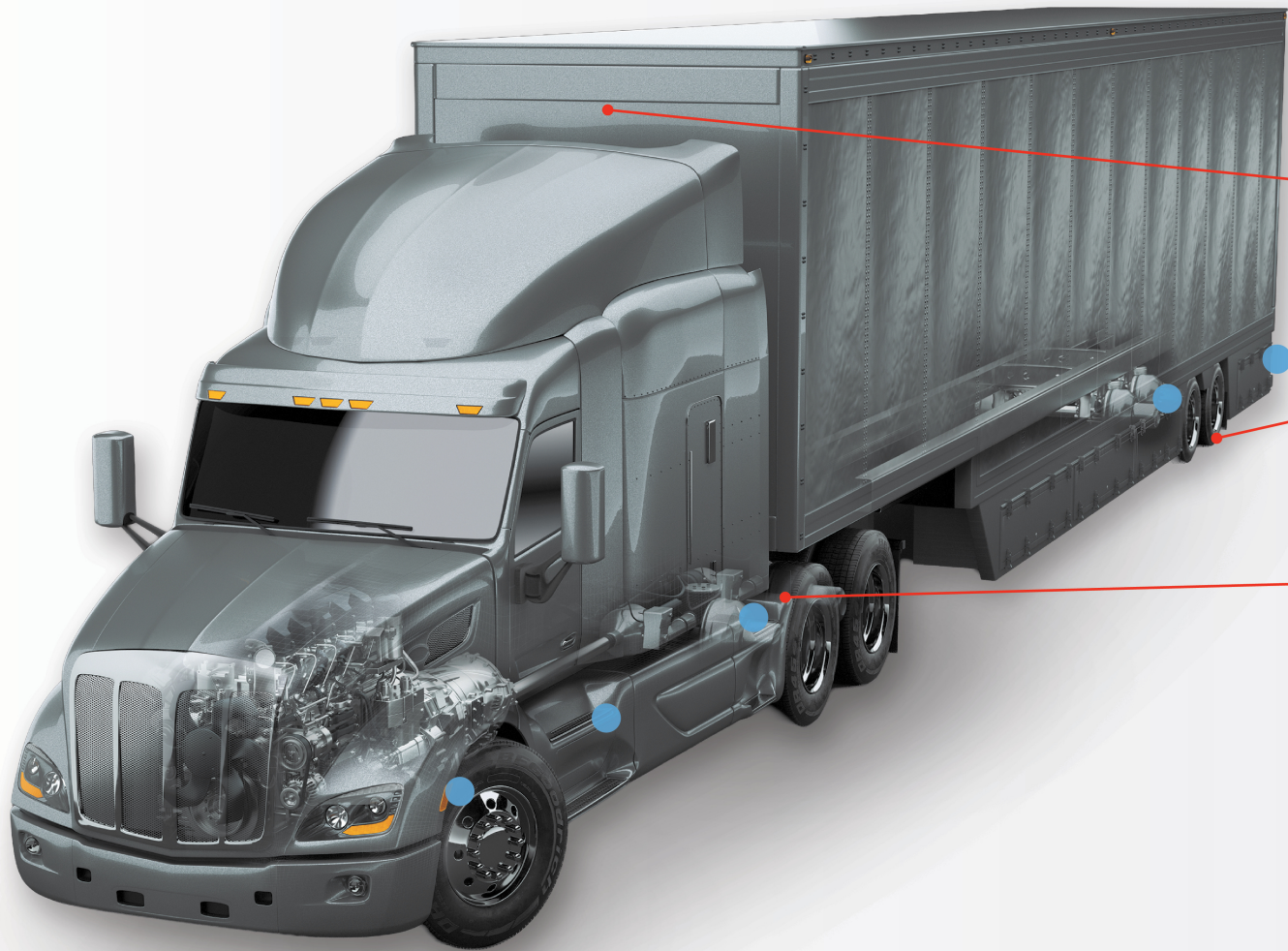
Full synthetic, heavy duty automatic transmission fluid with outstanding low-temperature properties for year-round use in trucks and buses.

Voith, ZF:

VERSATRANS® ATF

Premium-quality, synthetic blend fluid for automatic transmissions.

Trucking



Lubricants for Trailers

These high-quality lubricants are formulated to meet the special needs of semi-trailer rigs.

REFRIGERATION UNITS

GUARDOL ECT® DIESEL ENGINE OIL

Synthetic blend motor oil for enhanced thermal stability in all conditions.

NON-DRIVEN AXLES



MULTIPLEX® FS ELL

Semifluid lithium complex grease developed for lubricating wheel bearings on non-driven truck trailer axles equipped with oil seals.

ASSORTED CHASSIS GREASE POINTS

(slack adjusters, door hinges, etc.)

DYNALIFE® 220

Versatile, multi-purpose lithium greases for moderate temperatures and loads.

MULTIPLEX® FS 220 | OMNIGUARD® 220 MULTIPLEX® 220

PAO synthetic, calcium sulfonate or lithium complexes for applications that require performance at higher temperatures.

Speciality Lubricants

These lubricants are engineered to meet the special needs of service and utility trucks, cherry pickers, garbage trucks, dump trucks, and snow plows.

HYDRAULICS

MEGAFLOW® AW HVI HYDRAULIC OIL

High-quality, high-viscosity-index, anti-wear hydraulic oil for wide temperature ranges.

MEGAFLOW® AW HYDRAULIC OIL

High-quality, anti-wear hydraulic fluid for all types of high-pressure, high-speed hydraulic pumps.

FIREBIRD® AW HYDRAULIC OIL

Anti-wear hydraulic oil formulated with re-refined base stocks that help lessen the environmental impact of used-oil disposal.

ARCTIC LOW POUR HYDRAULIC OIL

High-quality, low-pour, high-viscosity-index anti-wear hydraulic oil designed for industrial and mobile equipment operating in extremely cold environments.

GREASE POINTS

Chassis Grease Points

(tie rod ends, kingpins, door hinges, etc.)

DYNALIFE® 220

Versatile, multi-purpose lithium greases for moderate temperatures and loads.

MULTIPLEX® FS 220 | OMNIGUARD® 220 MULTIPLEX® 220

PAO synthetic, calcium sulfonate or lithium complexes for applications that require performance at higher temperatures.

MEGAPLEX® XD3 | MEGAPLEX® XD5

Premium heavy-duty lithium complex grease designed for severe-service applications requiring enhanced wear protection and durability under extreme loads.

Fifth Wheel Grease

MEGAPLEX® XD3

Extreme-pressure lithium complex grease with 3% moly for protection against wear in high load-carrying-capacity operations.

Steering Axle Wheel Bearings

MULTIPLEX® FS 220 | OMNIGUARD® 220 DYNALIFE® 220 | MULTIPLEX® 220

PAO synthetic, calcium sulfonate or lithium complexes for applications that require performance at higher temperatures.

Your hauling conditions change day by day. Your engine's needs don't. That's why our trucking lubricants are sleet, snow, dust and scorching heat approved.

While you're busy hitting the road, our protection is working overtime to minimize wear and maximize fuel economy. From regional routes to long-haul operations, our products are engineered for the extremes to ensure your rig performs with consistency and control on every stretch of highway.



LUBRICANTS

KEEPING THE WORLD
RUNNING SMOOTHLY®



Phillips 66® Lubricants offers a complete line of products for a wide variety of industries. Check with your supplier today for more information and product availability.

For technical product information, please contact the Technical Hotline at 877.445.9198 or email us at lubricants@p66.com.

To find a distributor, visit: **WWW.PHILLIPS66LUBRICANTS.COM/FIND-DISTRIBUTOR/**.

U.S. and Canada Customer Service
800.368.7128