

**KEEPING THE
WORLD
RUNNING
SMOOTHLY.**



HEAVY-DUTY PRODUCTS



Digging toward the center of the earth. Hauling freight from coast to coast. Raising steel into the sky. Feeding the earth itself. Some jobs are heavier than others. And we have hundreds of formulations for thousands of those jobs.

We all have the power to change the world. Of course, not everyone has the necessary equipment. But you do. You build up. You dig down. You move the earth and change the landscape of the future. You move across the landscape to deliver the future by the truckload. No task is too great. No pebble, package or payload is too small. Because of you, the world continues to run day after day. Our job is to help you keep the world running smoothly.

**KEEPING THE
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The weight that rests on your shoulders and your equipment is heavy. That's why we make the best in heavy-duty protection. We work hard to fight wear, corrosion and oxidation in your hard-working engines.



CK-4 & FA-4 CERTIFIED OILS



TRITON® ARCTIC
FULL SYNTHETIC
CK-4



TRITON ECT
FULL SYNTHETIC
CK-4



TRITON EURO
FULL SYNTHETIC
CK-4 | MB 228.51



TRITON FE
FULL SYNTHETIC
FA-4



GUARDOL ECT®
SYNTHETIC BLEND
CK-4



GUARDOL FE®
SYNTHETIC BLEND
FA-4



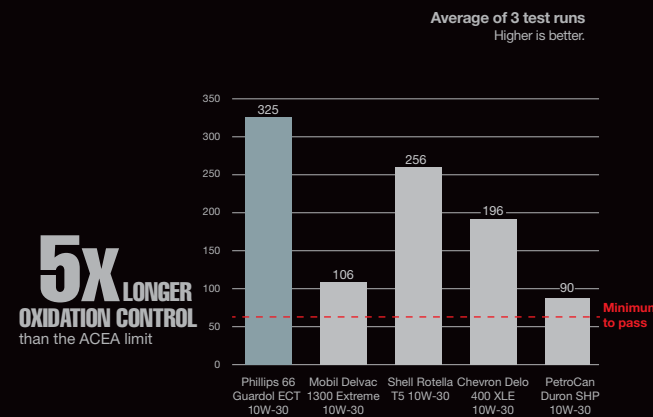
FLEET SUPREME EC®
CONVENTIONAL
CK-4



FIREBIRD® EC
RE-REFINED
CK-4

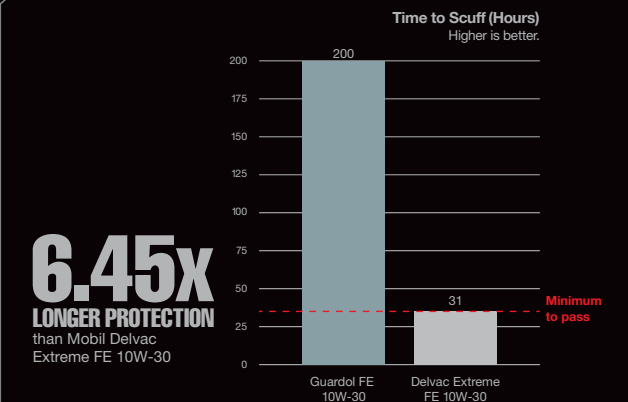
TEST RESULTS

OXIDATION CONTROL (PDSC Oxidation Test)



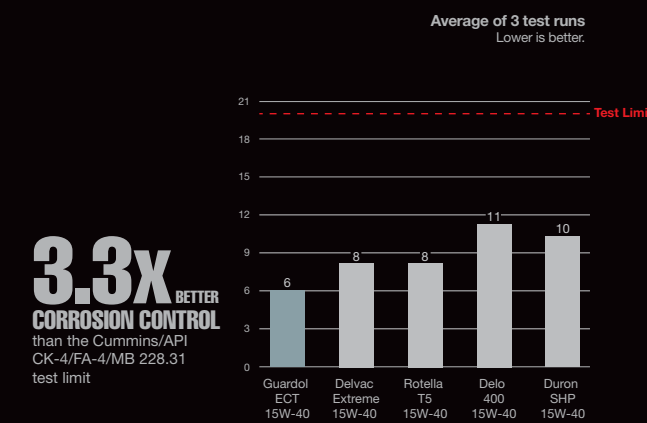
Phillips 66 is clearly the industry leader in oxidation control. This test takes oil samples and pressurizes them, holding them at constant conditions until oxidation occurs.

WEAR PROTECTION (DD13 Scuffing Test)



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.

CORROSION CONTROL (ASTM D6594 HTCBT)



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

FUEL EFFICIENCY (Annual Fuel Savings)



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 \$2.75 per gallon and 45,000-mile oil drain intervals.

We engineer solutions for the daily grind. Putting every product through the ringer to ensure superior performance. Like our API CK-4 and FA-4 engine oils, which endure millions of miles of testing to improve fuel efficiency and minimize emissions.

The results of industry-standard testing shows our products to be superior or equal to leading competitors in every category. And with our extended FA-4 warranty you can move confidently to the benefits of our most advanced diesel engine oils.

GREASES



MEGAPLEX® XD3
NLGI #2



MULTIPLEX® FS 220
NLGI #2



DYNALIFE® 220
NLGI #2



OMNIGUARD® XD5
NLGI #2

GEAR OILS



TRITON® SYN GL
FULL SYN API GL-5



MP GEAR LUBE
API GL-5



TRITON SYNGEAR FE
FUEL-EFFICIENT API GL-5

EXTRA DUTY GEAR OIL
PREMIUM EXTREME-PRESSURE INDUSTRIAL

Our greases and gear oils provide advanced wear protection under heavy loads and in extreme temperatures—all while helping avoid downtime and premature wear.



KEEPING THE
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First, you move the dirt. Then, you move concrete, glass and steel. And through it all, you must remain moved by your own tenacity and grit — while protecting your equipment from the grit of the earth that threatens to stop progress in its continuous tracks.

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 10W-30

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

T5X OFF-ROAD MOBILE HYDRAULIC FLUID

High-performance fluid for Caterpillar hydraulic systems and other off-highway mobile equipment, plus in hydrostatic transmissions of some off-road equipment

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

ULTRA POWERFLOW HE

Ultra-high-efficiency, high-viscosity-index, anti-wear hydraulic oil for use in cold climates or under wide temperature variations. Recommended for use in construction equipment manufactured by Komatsu and others

MEGAFLOW® AW HVI 32

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

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

ENGINE CRANKCASE

GUARDOL ECT® 15W-40 WITH LIQUID TITANIUM® PROTECTION ADDITIVE

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

FLEET SUPREME 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 10W-30

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

T5X® OFF-ROAD MOBILE HYDRAULIC FLUID 10W

High-performance fluid for Caterpillar hydraulic systems and other off-highway mobile equipment, plus hydrostatic transmissions of some off-road 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

GLW-E

Premium-quality, extreme-pressure industrial gear oil that emulsifies with water for the lubrication of heavily loaded enclosed gear drives

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

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

POWERFLOW NZ HE-E HYDRAULIC OIL

High-efficiency, high VI, zinc-free anti-wear hydraulic oil; emulsifies with 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 ARCTIC APPLICATIONS

TRITON® ARCTIC DIESEL ENGINE OIL

API CK-4 full synthetic diesel engine oil for use where the low-temperature properties of an SAE 0W-40 is required

POWERDRIVE SYNTHETIC ARCTIC TO-4 FLUID

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

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

OTHER SPECIALTY

CIRCULATING OIL

High-quality, rust-inhibiting mineral oil for use in circulating systems subject to contamination



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, Le Tourneau, 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 operations at moderate to high temperatures

MULTIPLEX 600

Multipurpose, extreme-pressure lithium-complex grease for equipment operating under heavy loads at moderate to high temperatures

MEGAPLEX® XD3

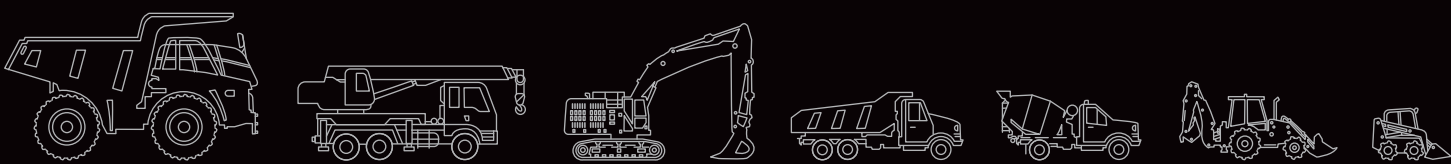
High performance, multipurpose, extreme-pressure lithium complex grease (3% molybdenum disulfide) developed to satisfy the severe lubrication requirements of construction and off-road equipment

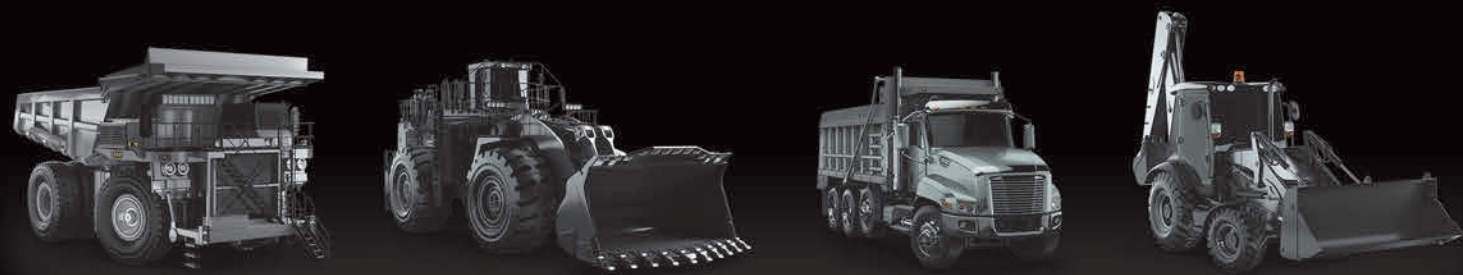
MEGAPLEX XD5

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

MULTIPLEX 460

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





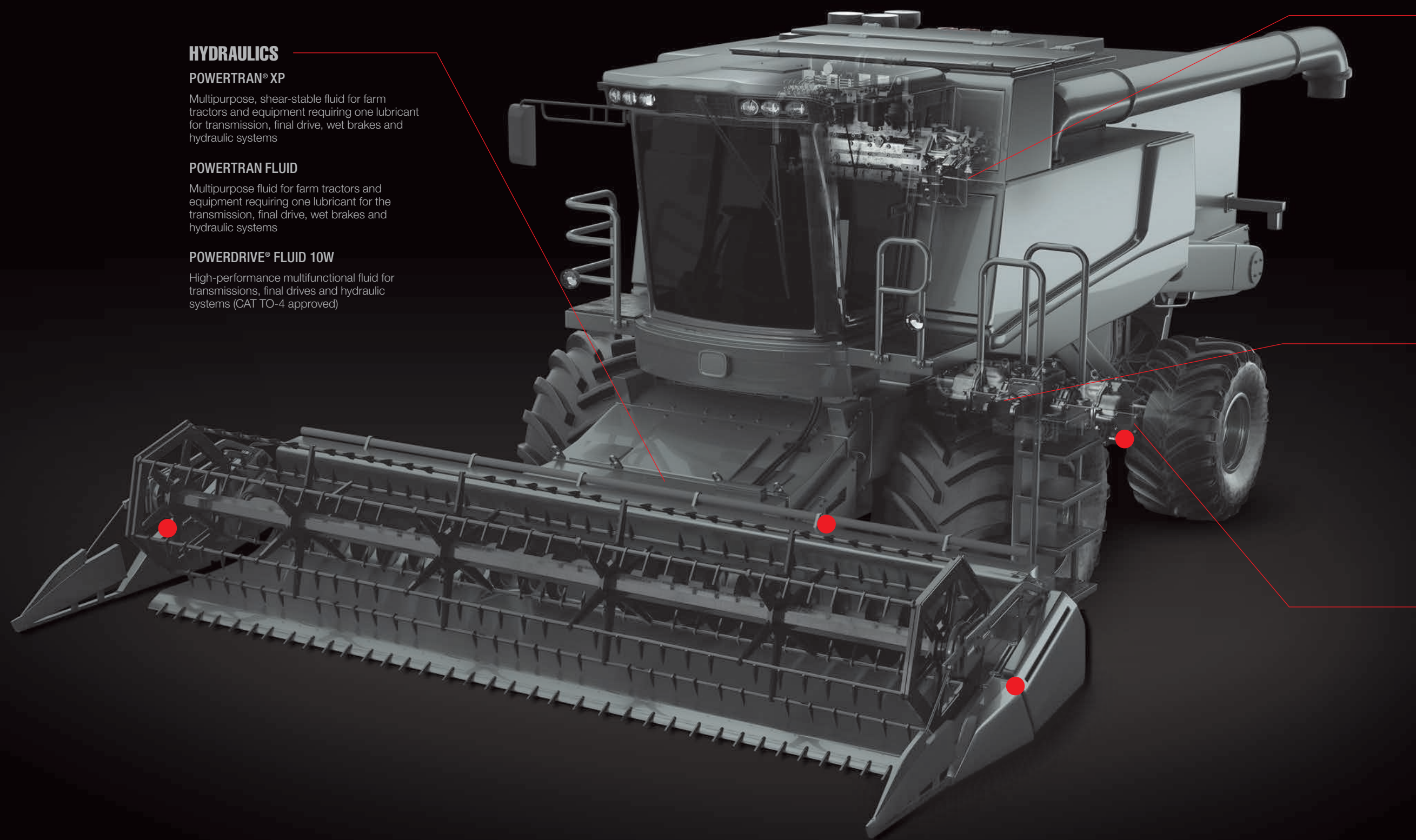
Graders. End loaders. Dozers. Dump trucks. Cranes. We offer the most innovative lubricants for every piece of heavy equipment on any project—from the moment you break ground until the final inspection is complete.



KEEPING THE
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Every day, you're up before dawn and home after dusk. Seed, feed, harvest, repeat. You know every inch of your land. And when it comes to your equipment, you know every inch of the land is unforgiving.



HYDRAULICS

POWERTRAN® XP

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

POWERTRAN FLUID

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

POWERDRIVE® FLUID 10W

High-performance multifunctional fluid for transmissions, final drives and hydraulic systems (CAT TO-4 approved)

ENGINE CRANKCASE

GUARDOL ECT® 15W-40 DIESEL ENGINE OIL WITH LIQUID TITANIUM®

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

FLEET SUPREME EC® 15W-40 DIESEL ENGINE OIL

API CK-4 diesel engine oil

POWER-D® 15W-40 ENGINE OIL

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

TRANSMISSION

POWERTRAN XP

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

POWERTRAN FLUID

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

DIFFERENTIALS AND AXLES

POWERTRAN XP

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

POWERTRAN FLUID

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

GREASE POINTS

MULTIPLY® 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

MULTIPLY 220

Multipurpose, extreme-pressure lithium-complex grease for equipment operating under heavy loads at moderate to high temperatures

MULTIPLY 600

Multipurpose, extreme-pressure lithium-complex grease for equipment operating under heavy loads at moderate to high temperatures

MULTIPLY 460

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

DYNALIFE 150

Versatile, multipurpose lithium grease for moderate temperatures and loads

DYNALIFE CP

Semifluid, non-extreme-pressure lithium grease for use in cotton picker spindle heads, picker bars, plant strippers and chassis bearings

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

TRANSMISSION OIL SAE 90

An SAE 90 mineral oil gear lubricant recommended for use in manual transmissions, transfer cases and rear axle assemblies

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:

PUMP OIL

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

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 suppressant for grains and animal feed, food processing equipment, drip oil for deep well water pumps and more






Your work never stops, so your machinery can't stop either. You need the toughest protection in all of the land for the toughest jobs that deal with the land. Luckily for you and your equipment, that's exactly what our agricultural lubricants offer.



KEEPING THE
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The journey of thousands of miles starts with a single turn of a key. Across the nation's farmlands and plains. Over its snow-capped mountains. Through its suburbs and city streets. The road is yours. You own it — as long as you do everything possible to keep it from owning you.

 BEST CHOICES TO MAXIMIZE FUEL ECONOMY

DIESEL ENGINE

Fuel Economy options:

 **GUARDOL FE® 10W-30 DIESEL ENGINE OIL WITH LIQUID TITANIUM®**

 **TRITON® FE 5W-40 DIESEL ENGINE OIL**

Premium Synthetic Blend option:

GUARDOL ECT® 10W-30 & 15W-40 DIESEL ENGINE OIL WITH LIQUID TITANIUM

Specialty options:

TRITON ECT 5W-30 DIESEL ENGINE OIL WITH LIQUID TITANIUM

TRITON EURO 5W-30 DIESEL ENGINE OIL

Mainline option:

FLEET SUPREME EC® DIESEL ENGINE OIL


Re-refined option:

FIREBIRD® HEAVY DUTY EC DIESEL ENGINE OIL

CNG / LNG ENGINE

GUARDOL® NG
Premium oil for slider-follower diesel engines converted to natural gas service

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

AUTOMATIC TRANSMISSION

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

TRITON 295 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

MANUAL STEERING GEAR

TRITON SYNTHETIC GEAR LUBE
Synthetic, multipurpose gear lubricant for truck axles with hypoid gear sets operating in all conditions

MP GEAR LUBE
Multipurpose, API GL-5/MT-1 gear lubricant for truck axles and some heavy-duty manual transmissions in trucks and buses

DIFFERENTIAL / FINAL DRIVE

 **TRITON SYNTHETIC GEAR LUBE**
Synthetic, multipurpose gear lubricant for truck axles with hypoid gear sets operating in all conditions

MP GEAR LUBE
Multipurpose, API GL-5/MT-1 gear lubricant for truck axles and some heavy-duty manual transmissions in trucks and buses


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 WITH LIQUID TITANIUM®
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® 150 | DYNALIFE 220
Versatile, multipurpose lithium greases for moderate temperatures and loads

MULTIPLEX FS 220 | OMNIGUARD® 220
DYNALIFE 220 | MULTIPLEX 220
PAO synthetic, calcium sulfonate or lithium-complexes for applications that require performance at higher temperatures

SPECIALTY 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

GREASE POINTS

CHASSIS GREASE POINTS
(tie rod ends, kingpins, door hinges, etc.)

DYNALIFE 150 | DYNALIFE 220
Versatile, multipurpose lithium greases for moderate temperatures and loads

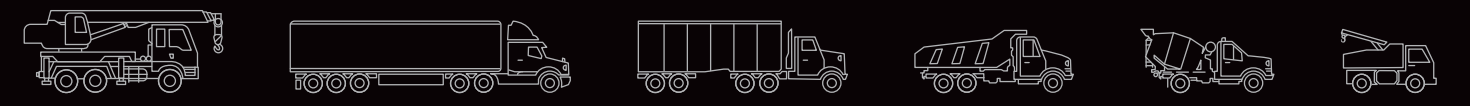
MULTIPLEX FS 220 | OMNIGUARD 220
MULTIPLEX 220
PAO synthetic, calcium sulfonate or lithium-complexes for applications that require performance at higher temperatures

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





When you're on the road, the list of challenges is endless. Construction. Congestion. Wind, rain and snow. Strict timelines. Standstill weigh station lines. The last thing you need is for your rig to add to your troubles. That's why we offer the best in engine oils and lubricants.



**KEEPING THE
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**Our job is to keep the world running smoothly.
We do that by making your job run as smoothly
as possible. That's about having just the right
lubricant for just the right job. With hundreds
of formulations for thousands of applications,
you can bet we have it.**



**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 more information, call our Technical Hotline at **877.445.9198** | **PHILLIPS66LUBRICANTS.COM**
