



TOUGH OILS FOR A HARD COUNTRY

LUBRICANTS PORTFOLIO



THE **STRENGTH** BEHIND YOU



LUBRICANTS





ENGINEERED PERFORMANCE

CONTENTS

- 04** New Genuine Lubricants Portfolio
- 06** Leveraging Industry Leading Brands
- 07** Portfolio Updates
- 08** A Lineup of Leadership
- 28** Product Offering
- 32** Fluid Analysis and Lubricant Test Kit
- 33** Lube Lookup
- 34** Glossary



NEW GENUINE LUBRICANTS PORTFOLIO: DESIGNED FOR SUCCESS

New Holland Agriculture and New Holland Construction has undertaken the most demanding and rigorous testing of our products to push the limits of performance under pressure.

Working closely with our industry leading blending partner, we've developed an entire lubricants portfolio engineered specifically for New Holland Agriculture and New Holland Construction but also suitable across the range of off-highway machinery.

The full suite of options in this new portfolio include industry-leading advancements in engine oils, hydraulic transmission oils, coolants, grease and specialty fluids.

No matter the job, this range is up to it.



TESTED, VETTED AND READY TO REVOLUTIONISE THE INDUSTRY.

The new Genuine Lubricants Portfolio is comprehensive and offers the latest Original Equipment Manufacturer (OEM) formula.

While these products are cross compatible, only our OEM lubricants are:

- Built specifically for New Holland Agriculture and New Holland Construction equipment
- Tested and fully approved to meet or exceed API and CNH Industrial Material Standards (MAT)
- Approved for New Holland Agriculture and New Holland Construction warranties

Only the OEM products available through this portfolio are engineering approved and recommended for New Holland Agriculture and New Holland Construction. We offer a wide range of lubricants, including those used with Factory Fill, as well as unique Service Fill options.



LEVERAGING INDUSTRY LEADING BRANDS.

New Holland Agriculture and New Holland Construction has strong brand awareness, recognised in the Agricultural and Construction industries for quality and reliability.

For many years, New Holland's Engine Oil and Transmission Fluids has provided excellent performance and protection that meets the demands of your machine and your expectations.

To ensure maximum machine uptime and superior quality, CNH Industrial has invested close to \$100M USD in research and development to date.

Designed to meet the specific needs of our machines, the portfolio has undertaken rigorous testing in the most demanding environments, including:

- 200+ supplier bench tests
- 100+ CNH Industrial screening and rig tests
- 88 machine tests over more than five years

Having a deep-seated knowledge of operations and lubrication needs, our engineers have developed premium formulations, built on the very latest technology that adapts chemically and physically to changing conditions within the engine.



NOTABLE PORTFOLIO UPDATES

Here's an overview on the updated new portfolio to get you, where everyone needs to be: successful..

Improved Formulation:

- Engine Oil — Incorporates latest engine oil technologies
- Hydraulic Transmission Oil — Premium — Zinc Free Formulation

Engine Oil Label Design:

Labels are colour coded for simplified selection:

- Silver — Synthetic
- White — Conventional



A LINEUP OF LEADERSHIP





Engine Oil

- Conventional and Synthetic
- Available in 5L, 20L, 209L, 1000L
- MAT 3571, 3572, 3622



Coolant

- Premix 50/50
- Available in 5L, 20L, 205L
- MAT 3724



Hydraulic Transmission Oil

- Zinc Free and Zinc Based Formulations
- Available in 5L, 20L, 209L, 1000L
- MAT Approved



Gear Oil Specialty

- Hypoid, Synthetic Hypoid, Premium Transaxle
- Available in 5L, 20L, 209L
- MAT 3516-(A-C), 3515-B



Grease

- Multi-Purpose
- Available in 0.45kg, 18kg
- MAT 3555-A

THE NEW HOLLAND AGRICULTURE AND NEW HOLLAND CONSTRUCTION PORTFOLIO

In keeping with a well-known brand legacy, the new Genuine Lubricants Portfolio received an updated and modern look to represent the advanced formulations inside.

OLD

Mastergold

Ultraction

Actifull OT

Extended-Life Coolant



NEW



Engine Oil

OAT Extended-Life
Coolant / Antifreeze
- Premix

Hydraulic
Transmission Oil

CK-4 VS CJ-4: BETTER PERFORMANCE. BETTER PROTECTION.

For more than 70 years, the American Petroleum Institute (API) has developed engine oil standards to protect new and current engine technologies, meet government regulations and ensure that tests are available to measure engine oil performance.

In 2016 the API set new specifications – called CK-4. These standards focus on effectively sustaining emission control system durability. Additionally, API CK-4 standards are designed to protect against oil oxidation, viscosity loss due to shear and oil aeration.

CK-4 Oils Meet Tougher Standards Regarding:



High temperature oxidation stability



Shear stability requirements



Increased aeration control

EXCEEDING INDUSTRY STANDARDS

New technologies that run at hotter temperatures and higher pressures, along with fuel economy requirements and stricter greenhouse gas standards, require higher performance engine oils.

Genuine New Holland Agriculture and New Holland Construction engine oils have become CNH Industrial engineering-approved after passing a series of stringent, internal tests. Because we demand more from our products, the internal standards we apply go above and beyond the minimum API requirements.

As a result, MAT specifications are used to test and approve all lubricants to ensure they exceed industry standards.

Our engine oil MAT specifications exceed the API CK-4 requirements, holding Genuine New Holland Agriculture and New Holland Construction engine oils to a higher standard.



WHY CK-4 VS. CJ-4?
THE PRIMARY BENEFIT OF CK-4
IS FUEL EFFICIENCY, HELPING TO
REDUCE CO₂ EMISSIONS.



ENGINE OIL

Formulated to meet the stringent demands of today's Tier 4 engines by utilising Low-SAPS (Sulfated Ash, Phosphorus and Sulfur) additive technology that helps protect exhaust catalysts and diesel particulate filters (DPF) on the latest low emission machines.

As a safeguard against premature wear, our genuine Engine Oils have been specifically engineered to new, next-generation MAT 3571, 3572 and 3622 specifications and extensively tested to provide maximum protection in oxidation and aeration control, shear stability and proven performance life for the heavy-duty, high-temperature operation of agricultural, construction and other off-road diesel-powered equipment.

KEY TAKEAWAYS:

- New Holland Agriculture and New Holland Construction Genuine Engine Oils are the only lubricants bench tested, field tested and approved by CNH Industrial engineers in severe lab conditions, and under load in extreme field testing.
- Only oil approved for extended drain intervals (20% longer) for New Holland Agriculture and New Holland Construction equipment.
 - AG 10W-40 600 hours; (15W-40) 500 hours*
 - CE 10W-40 500 hours; (15W-40) 400 hours*
- Tiered Label Design
 - Silver – Synthetic
 - White – Conventional

*please refer to your operator's manual on the optimal oil drain interval for your equipment.



TYPICAL PHYSICAL CHARACTERISTICS

PROPERTY	METHOD	10W-40 (CK-4)	15W-40 (CK-4)	15W-40 (CI-4)
Kinematic Viscosity @40°C mm ² /s	ASTM D445	102	115	109
Kinematic Viscosity @100°C mm ² /s	ASTM D445	14.8	15.3	14.7
Dynamic Viscosity @-250°C mPa s	ASTM D5293	6,500	6,200	6,700
Viscosity Index	ASTM D2270	154	139	139
Total Base Number mg KOH/g	ASTM D2896	10	10	10.5
Sulfated Ash %	ASTM D874	1	1	1.45
Density @15°C kg/l	ASTM D4052	0.862	0.876	0.888
Flash Point [COC] °C	ASTM D92	237	236	230
Pour Point °C	ASTM D97	-42	-35	-36

PRODUCT OFFERING

DESCRIPTION	SIZE (LITRES)	PART NO.
Engine Oil SAE 10W-40 API CK-4 Synthetic MAT 3571	5	73394542
	20	73394670
	209	73394541
Engine Oil SAE 15W-40 API CK-4 MAT 3572	5	73323223
	20	73394661
	209	73394536
	1000	73394537
Engine Oil Super SAE 15W-40 API CI-4 MAT 3622	5	73394667
	20	73394668
	209	73394533
	1000	73394534

MAT NUMBERS
3571, 3572,
3622

API RATING
CK-4
CI-4



HISTO



RY

HYDRAULIC TRANSMISSION OIL- PREMIUM

CNH Industrial first developed Hydraulic Transmission Oil for its own equipment in 1964 and it is now considered an industry standard. Since then, it has been tested and upgraded several times to improve performance.

What are the functions of hydraulic transmission oils?

They must:

- Transmit energy
- Control corrosion
- Transfer heat
- Control friction
- Control wear
- Control contamination

What are the properties of hydraulic transmission oils?

- Anti-wear extreme-pressure additives
- Detergents
- High oxidation stability
- Reduced noise and vibration tendency
- Friction modifier
- Metal deactivator
- Rust and corrosion inhibitors
- Water tolerance
- Low pour point
- Heat tolerance
- Compatible with all types of seals
- Performance over time

What makes Hydraulic Transmission Oil - Premium superior to competitive oils?

- Zinc-free technology for superior corrosion protection and less toxicity to the environment
- It satisfies the exact performance specifications of the multiple functions of a machine system
- Comparison tests have shown the actual performance difference
- Best in class torque transfer for smoother operations and getting more productive hours from your equipment
- Improved shiftability for a lower noise for operational agility, operator's comfort and less equipment strain
- Best in class shear stability offers less frequent oil top ups
- Best in class water tolerance

HYDRAULIC TRANSMISSION OIL - PREMIUM

As technology continues to advance, New Holland Agriculture and New Holland Construction stays ahead of the curve with the newly improved Hydraulic Transmission Oil — Premium. The oil is designed to keep tractor transmissions, axles and hydraulic systems free of deposits while inhibiting wear, corrosion, sludge and foaming.

Engineered specifically for New Holland Agriculture and New Holland Construction equipment, Hydraulic Transmission Oil — Premium utilises the latest zinc-free, anti-wear additives and is formulated to provide premium performance and protection for all generations of equipment – from legacy to CVTs.



KEY TAKEAWAYS:

- **Unrivalled Water Tolerance:**
Unique ability to hold up to 1% of its volume in water helps prevent rust, sticky valves, flow restrictions and pump cavitation.
- **Improved Superior Oxidation Stability:**
Less oxidation under heat prevents metal deposits and corrosion, extends component life and reduces downtime.
- **Superior Shear Stability:**
Provides advanced wear protection for transmissions and implement pumps by maintaining its viscosity when subjected to high temperatures and extreme pressure.
- **Superior Wear Protection:**
Less wear for longer component life.

TYPICAL PHYSICAL CHARACTERISTICS

PROPERTY	METHOD	HYDRAULIC TRANSMISSION OIL—PREMIUM
Viscosity @100°C mm ² /s	ASTM D445	9.4
Brookfield Viscosity @-20°C mPa s	ASTM D2983	4,300
Foaming Tendency ml (Seq I/II/III)	ASTM D892	0/10/0
Water Tolerance 1.0%	—	Pass
KRL Shear 20 hours	CEC L-45-T-93	13%

PRODUCT OFFERING

DESCRIPTION	SIZE (LITRES)	PART NO.
Hydraulic Transmission Oil - Premium	5	73394683
	20	73394682
	209	73394521
	1000	73394522

**MAT SPEC
APPROVED**

**WATER TOLERANCE
UP TO 1%**



UNIVERSAL TRANSMISSION OIL - PREMIUM



Premium Hydraulic Transmission Oil designed for use in transmissions, hydraulic systems, oil immersed brakes and other ancillary systems fitted to agricultural tractors and off-road equipment. Suitable for use in most modern equipment, Universal Transmission Oil—Premium our latest improvement to the Multi-G formula.

KEY TAKEAWAYS:

- **Enhanced Protection:** Anti-oxidation, shear-stability, anti-wear, anti-corrosion and anti-foam characteristics result from the use of the additive technology leading to greater reliability and reduced downtime thus minimising cost and maximising utilisation.
- **Operator Comfort:** The low temperature fluidity of Universal Transmission Oil—Premium results in responsive hydraulic performance and smooth gearshift performance, from cold starts to maximum operating temperatures. Friction modifying additives help create smoother operation of oil immersed brakes.
- **Hydraulic Systems:** Universal Transmission Oil—Premium is ideally suited for hydraulic systems of tractors and ancillary equipment. Universal Transmission Oil—Premium is formulated using specially selected additives and high-quality base oils to provide good low temperature fluidity and wear protection.

TYPICAL PHYSICAL CHARACTERISTICS

PROPERTY	METHOD	UNIVERSAL TRANSMISSION OIL—PREMIUM
SAE Viscosity Grade	SAE J 300	10W/30
Kinematic Viscosity @40°C mm ² /s	ISO 3104	60
Kinematic Viscosity @100°C mm ² /s	ISO 3104	9.4
Viscosity Index	ISO 2909	138
Density @15°C kg/m ³	ISO 12185	882
Flash Point (COC) °C	ISO 2592	220
Pour Point °C	ISO 3016	-42

PRODUCT OFFERING

DESCRIPTION	SIZE (LITRES)	PART NO.
Universal Transmission Oil - Premium SAE 10W-30	5	73323039
	20	73394674
	209	73394527
	1000	73323225

EXTENDED-LIFE OAT COOLANT

This long service life coolant/antifreeze is based exclusively on a synergistic combination of Organic Additive Technology (OAT), providing excellent overall corrosion protection. Suitable for all heavy and light-duty diesel, natural gas and gasoline engines, this formulation is approved by our engineers under the new next-generation MAT 3724 specifications and provides superior high temperature protection in extreme conditions. It protects cooling system metals including brass, copper, solder, steel and cast iron against rust, corrosion and deterioration and fights against deposit build up and cylinder liner cavitation.



KEY TAKEAWAYS:

- Provides up to 4,000 hours/4 years' service life in heavy equipment applications without the need of a booster or extender.
- Required for New Holland Agriculture and New Holland Construction FPT Tier 4 engines.*
- Fully backwards compatible and the ONLY coolant able to protect all generations of equipment.
- Does not contain nitrites, which does not react with water impurities, but contain organic additives which allow for better cooling properties.
- Premix is blended 50/50 and contains reverse osmosis treated, demineralised water.

* Always consult operator's manual for the exact fluid recommendation.

TYPICAL PHYSICAL CHARACTERISTICS 50-50 PREMIX

CHARACTERISTICS	METHOD	PERFORMANCE
Appearance	-	Clear and transparent
Colour	-	Red
pH	ASTM D1287	7.8 -8.8
Reserve Alkalinity ml	ASTM D1121	2.5 min.
Specific Gravity	ASTM D1122	1.065 - 1.085
Freeze Point °C	ASTM D1177	-37
Foam Volume ml	ASTM D1881	50 max.
Foam Break Time second	ASTM D1881	5 max.
Chloride ppm	ASTM D3634	< 25
Silicon	ASTM D6130	< 10
Phosphate	ASTM D5827	< 10
Nitrite	ASTM D5827	< 10
Shelf Life unopened, original container	-	8 years

PRODUCT OFFERING

DESCRIPTION	SIZE (LITRES)	PART NO.
OAT Extended Life Coolant/Antifreeze Premix MAT 3724	5	73394595
	20	73394604
	205	73394594

MAT NUMBER
3724

MEETS ASTM
D3306, D6210



HYPOID GEAR OIL AND TRANSAXLE OIL



Offers better overall protection for differentials and gear sets to increase performance under extreme pressures and extend equipment lifetime, while decreasing maintenance costs.

These new Hypoid Gear Oil formulas were also designed to help prevent deposit formation and maximise oil drain intervals without compromising protection.

Hypoid Gear Oil is available in three (3) different SAE viscosity grades:

- Conventional (SAE 80W-90, 85W-140)
- Synthetic (SAE 75W-90)



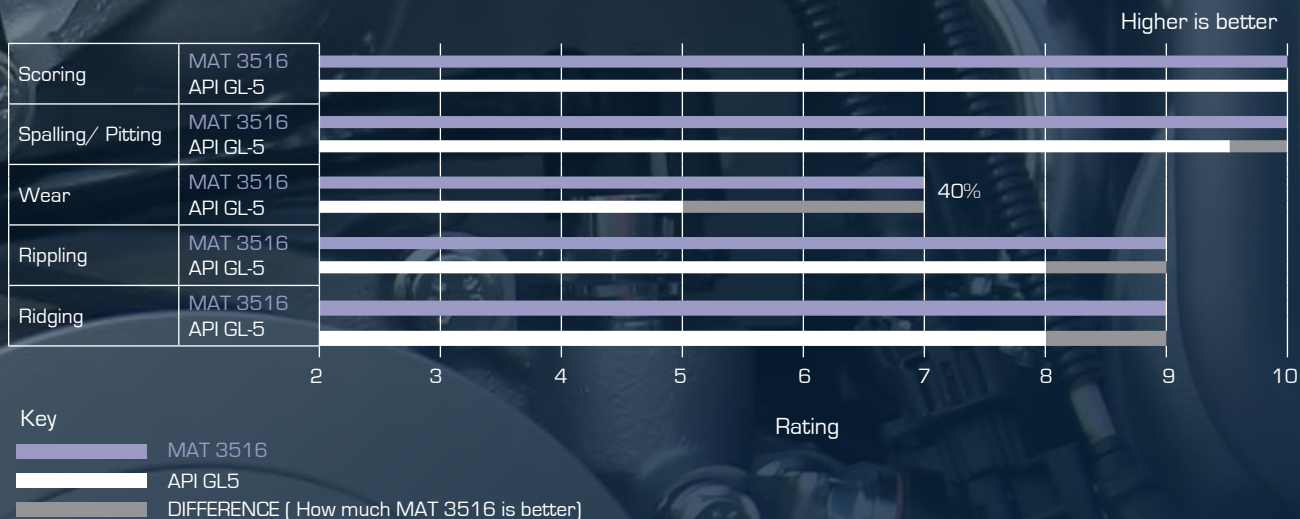
Transaxle Oil is available in one (1) different viscosity grades:

- Synthetic (SAE 80W-140)

KEY TAKEAWAYS:

- High load capability, anti-wear and extreme pressure properties extends equipment life and reduces maintenance costs under severe conditions.
- Protection from premature wear against rust and corrosion in wet or humid environments.
- Thermal and oxidation stability extends seal life and increases service life of equipment and lubricant.

CRC L-37 WEAR RESISTANCE OF GREEN GEARS



PRODUCT OFFERING

DESCRIPTION	SIZE (LITRES)	PART NO.
Hypoid Gear Oil Extreme Pressure SAE 80W-90 MAT 3516-A	20	73394687
Hypoid Gear Oil Extreme Pressure SAE 85W-140 MAT 3516-B	5	73394574
	20	73394575
Synthetic Hypoid Gear Oil Extreme Pressure MAT 3516-C	20	73323226
Premium Transaxle Oil SAE 80W-140 MAT 3515-B	20	73323228

MAT NUMBER
3516-(A-C)
3515-B



MULTI-PURPOSE GREASE

New Holland Agriculture and New Holland Construction greases are formulated with numerous additives to enhance and maintain consistent performance against high temperatures and extreme pressure, featuring:

- Antioxidants
- Anti-wear
- Extreme pressure additives
- Friction modifiers
- Dyes
- Anti-weld and solid

The MAT code on your grease label is what differentiates it from the competition. It certifies that our greases are tested and approved by CNH Industrial engineers to meet the demands of New Holland Agriculture and New Holland Construction machines.



KEY TAKEAWAYS:

- Stays in contact with the moving surfaces
- Minimal dripping, leaking and splattering
- Seals out contaminants
- Decreases frequency of lubrication
- Noise reduction dampening

PRODUCT OFFERING

DESCRIPTION	THICKENER	SIZE (KG)	PART NO.
Multi-Purpose 251H EP Grease Extreme Pressure / Anti-Wear / NLGI 2 MAT 3555-A	Lithium	0.45kg	73394600
		18kg	73394601



POWER

NEXPRO

NEXPRO is a specifically designed product line for owners of older machinery. NEXPRO offers an alternative to Genuine Parts in order to support your machinery throughout its entire lifecycle and for specific applications.



NEXPRO Turbo Engine Oil

A high-performance diesel engine oil, suiting turbo charged and naturally aspirated heavy-duty diesel engines. Suitable for most

Off-highway and On-highway applications, with approvals that either meet and/or exceed a wide range of manufacturers.

Suitable for most:

- Turbo charged and naturally aspirated diesel engines
- Off-highway and On-highway heavy duty diesel engines
- Suitable for use with bio-diesel
- High and ultra-low sulphur diesel fuels
- Engines fitted with Selective Catalytic Reduction (SCR)
- Engines fitted with Exhaust Gas Recirculation (EGR)



NEXPRO Hydraulic Oil

Recommended for use in most hydraulic systems using vane, piston or gear pumps, airline lubricators, vacuum pumps, lightly loaded gear sets and bearings (such as headstocks & windmill gears) as well as hydraulic hoists and jacks.

Suitable for:

- Agricultural machinery
- Construction equipment
- Commercial vehicles
- Forklifts and most hydraulic systems

Benefits include:

- Superior anti-corrosive properties to protect against water contamination
- Excellent anti-foam properties to significantly reduce cavitation and premature oxidation

NEXPRO HD Engine Coolant Premix

NEXPRO HD Engine Coolant Premix is a universal, long-life engine coolant/antifreeze designed for use in agricultural machinery, construction equipment and On-highway vehicles. This is a Ready-to use (RTU) product, thereby not requiring any further dilution.

NEXPRO HD Engine Coolant Premix is formulated to provide:

- Extended life; 4 years / 100,000 kms / 12,000 hours
- Compatibility with other OAT and conventional coolants

NEXPRO UTTO

NEXPRO 10W-30 Universal Tractor Transmission Oil (UTTO) is a combined transmission and hydraulic oil, designed to meet the requirements of older tractor and construction transmissions and hydraulics.

Suitable for:

- Agricultural machinery
- Construction equipment
- Backwards compatible to older tractor transmissions, hydraulic systems and wet brakes

Benefits include:

- Superior gear wear protection, and oxidation
- Anti-squawk additive package that ensures the correct frictional properties and effective operation of wet brake

Please note: NEXPRO Range is not approved for use in New Holland Agriculture and New Holland Construction equipment during the CNH Industrial Warranty period.

PRODUCT OFFERING		
DESCRIPTION	SIZE (LITRES)	PART NO.
NEXPRO UTTO SAE 10W-30 API GL-4	20	73394725
	209	73394726
NEXPRO TURBO ENGINE OIL SAE 15W-40 API CI-4	20	73394728
	209	73394727
NEXPRO HYDRAULIC OIL 68 ISO 11158 HM FLUID DIN 51524-2 HLP	20	73394730
	1000	73394731
NEXPRO HYDRAULIC OIL 46 ISO 11158 HM FLUID DIN 51524-2 HLP	20	73394729
NEXPRO HD COOLANT ASTM D3306, D6210	5	73394732
	20	73394733

PRODUCT OFFERING

ENGINE OIL			
DESCRIPTION	SIZE (LITRES)	PART NO.	SUB FROM
Engine Oil SAE 10W-40 API CK-4 Synthetic MAT 3571	5	73394542	73322552
	20	73394670	NH4319020
	209	73394541	73322554, 73322556
Engine Oil SAE 15W-40 API CK-4 MAT 3572	5	73323223	73322542
	20	73394661	73322543
	209	73394536	73322544
	1000	73394537	73322545
Engine Oil Super SAE 15W-40 API CI-4 MAT 3622	5	73394667	NH3138005, NH3139005
	20	73394668	NH3138020, NH3139020
	209	73394533	NH3138205, NH3139205
	1000	73394534	NH31381000, NH31391000

HYDRAULIC TRANSMISSION OIL			
DESCRIPTION	SIZE (LITRES)	PART NO.	SUB FROM
Hydraulic Transmission Oil - Premium	5	73394683	73322403
	20	73394682	73322404
	209	73394521	73322405
	1000	73394522	73322406

UNIVERSAL TRANSMISSION OIL			
DESCRIPTION	SIZE (LITRES)	PART NO.	SUB FROM
Universal Transmission Oil - Premium SAE 10W-30	5	73323039	NH3146005
	20	73394674	NH3146020
	209	73394527	NH3146205
	1000	73323225	NH31461000



COOLANT

DESCRIPTION	SIZE (LITRES)	PART NO.	SUB FROM
OAT Extended Life Coolant/Antifreeze - Premix MAT 3724	5	73394595	73322487
	20	73394604	73322488
	205	73394594	73322489

TRANSMISSION/GEAR OIL

DESCRIPTION	SIZE (LITRES)	PART NO.	SUB FROM
Hypoid Gear Oil Extreme Pressure SAE 80W-90 MAT 3516-A	20	73394687	NH3136020 NH4094020
Hypoid Gear Oil Extreme Pressure SAE 85W-140 MAT 3516-B	5	73394574	-
	20	73394575	NH3137020
Synthetic Hypoid Gear Oil Extreme Pressure SAE 75W-90 MAT 3516-C	20	73323226	73322987
Premium Transaxle Oil SAE 80W-140 MAT 3515-B	20	73323228	73322642
Shell Spirax S4 CX 10W	209	73323229	-
Shell Spirax S3 ATF MD3	1	73323230	NH3143020

HYDRAULIC OIL

DESCRIPTION	SIZE (LITRES)	PART NO.	SUB FROM
Premium Hydraulic Oil HM46 Anti-Wear MAT 3529-B	20	73394579	NH3307020
Premium Hydraulic Oil HV46 Multi-Grade Anti-Wear MAT 3530-B	20	73394626	-
Premium Hydraulic Oil HM68 Anti-Wear MAT 3529-C	20	73394580	NH3176020
Premium Hydraulic Oil HV68 Multi-Grade Anti-Wear MAT 3530-C	209	73394588	-

PRODUCT OFFERING

NEXPRO			
DESCRIPTION	SIZE (LITRES)	PART NO.	SUB FROM
NEXPRO UTTO SAE 10W-30 API GL-4	20	73394725	NP73322989, NP73322988
	209	73394726	NP73322990, NP73322991
NEXPRO TURBO ENGINE OIL SAE 15W-40 API CI-4	20	73394728	NP74525RY1, NP74525M28
	209	73394727	NP745255Z1, NP745259J1
NEXPRO HYDRAULIC OIL 68 ISO 11158 HM FLUID DIN 51524-2 HLP	20	73394730	NP76498RY1
	1000	73394731	NP764989J1, NP764985Z1
NEXPRO HYDRAULIC OIL 46 ISO 11158 HM FLUID DIN 51524-2 HLP	20	73394729	NP76498RY1, NP770995Z1, NP770999J1
NEXPRO HD COOLANT ASTM D3306, D6210	5	73394732	NP77271M28
	20	73394733	NP77271RY1, NP772715Z1, NP772719I1

SPECIALTY OILS			
DESCRIPTION	SIZE (LITRES)	PART NO.	SUB FROM
Universal Tractor Oil 15W-40	20	73394613	NH3142005, NH3142020
Low Temp Universal Tractor Oil 10W-40	20	73394614	NH3194020
Hydraulic Actuator Fluid LHM	1	73394558	NH3177001
Limited Slip Additive	0.946	73323231	87299132

GREASE			
DESCRIPTION	SIZE (KG)	PART NO.	SUB FROM
Multi-Purpose 251H EP Grease Extreme Pressure / Anti-Wear / NLGI 2 / Lithium MAT 3555-A	0.45	73394600	NH3147450, NH31470025
	18	73394601	-



RELIABILITY

FLUID ANALYSIS

Fluid analysis is a predictive maintenance tool that provides a picture of both the fluid and the internal condition of a component or system without the need without the need for disassembly. Fluid analysis provides you the opportunity to:

Extend oil drain intervals

Monitoring the condition of the oil optimises drain intervals so that you get the most out of the fluid you're paying for.

Extend equipment life

Monitoring system cleanliness and filtration efficiency allows you to keep your equipment longer and significantly reduce replacement costs.

Identify minor problems

State-of-the-art fluid analysis identifies dirt, wear particles, fuel dilution and coolant — contaminants that can cause catastrophic failure or significantly shorten equipment life.

Maximise asset reliability

Testing and analysis helps to prevent any downtime.

Provide assurances to future owners

Analysis results provide valuable sampling histories for any prospective buyer.

LUBRICANT TEST KIT

The test kit contains a pre-paid mailer, tubing, sample bottle, sample pot, instructions and sample label. For best practice sampling techniques, see the guide included in the test kit.

After drawing sample, fill out the sample label and send it via mail (delivery address should be specified on the mailer). Results are posted on Lube Analyst website and a database will be built containing sample results for all the oil and equipment checked.

DESCRIPTION	PART NO.
Oil Test Kit	73322651

Order the Lubricant Test Kit at your local dealership.

LUBE LOOKUP



Lube Lookup is an online resource to assist in identifying the lubricants and volumes required for New Holland Agriculture and New Holland Construction equipment.



Handy Hint: Use Lube Lookup for all agricultural and construction makes and models!

GLOSSARY

COMMON LUBRICANT TERMINOLOGY

Additive

A chemical added in small quantities to lubricant to impart or improve certain properties

Air Entrainment

The incorporation of air in the form of bubbles in the bulk liquid

Aniline Point

Lowest temperature at which a specified quantity of aniline is dissolved in the fluid; an empirical measure of the solvent power of a hydrocarbon

Antioxidant

Additive which increases oxidation resistance

Antiwear Agent

Additive which minimizes wear caused by metal-to-metal contact by forming a film on metal

API (American Petroleum Institute)

Trade association of petroleum producers, refiners, marketers, and transporters

API Service Categories

Gasoline (S) and Diesel (C) engine oil quality levels established jointly by API, SAE, and ASTM

Ash Content

Noncombustible residue of a lubricating oil or fuel

ASTM (American Society for Testing and Materials)

An organization which sets standard test methods for the analysis of lubricants

Base Oils

Inert diluent of additives which provides the bulk lubrication; the majority of the lubricant formulation

Brookfield Viscosity

Apparent viscosity often measured at low temperatures

Cold Cranking Simulator (CCS)

Measures viscosity of oils at low temperature to determine SAE winter grade

Conventional Coolant

Coolant that relies on inorganic inhibitors such as silicates, nitrites, and phosphates for corrosion and cavitation protection.

Conventional Oil

A highly refined petroleum distillate derived from crude oil

Corrosion

Chemical attack on a metal by contaminants in a lubricant or coolant

Corrosion Inhibitor

Additive for protecting metal surfaces against chemical attack by water or other contaminants

Demulsibility

Ability of an oil to readily separate from water

Detergent

Additive which chemically neutralizes acidic contaminants and helps clean the surface of metals

Dispersant

Additive which reduces the size of accumulated sludge, varnish, and other engine deposit formations

Dropping Point

The temperature at which a grease passes from a semisolid to a liquid

Emulsibility

Ability of an oil to mix with water

Engine Deposits

Accumulations of sludge, varnish, and carbon residue due to blow-by of unburned fuel or from breakdown of the engine oil

EP Additive

Additive which prevents sliding metal surfaces from seizing under conditions of extreme pressure (EP)

Fire Point

Minimum temperature at which vapor is produced at a sufficient rate to sustain combustion

Flash Point

Minimum temperature at which vapor is produced at a sufficient rate to yield momentary combustion

Foaming

Occurrence of a frothy mixture of air and liquid that can cause sluggish hydraulic operation or cavitation

Foam Inhibitor

An additive which causes foam to dissipate more rapidly

Friction

Resistance to the motion of one surface relative to another

Grease

Mixture of a liquid base oil and a thickener (typically soap-based) which form a semisolid lubricant

ILSAC

International Lubricant Standardization & Approval Committee: composed of Japanese and U.S. automobile manufacturers, initiates and promotes the development of passenger vehicle engine oil performance specifications



ISO

International Standards Organisation

ISO Viscosity Classification System

Industrial lubricants viscosity grade (e.g. 32, 46, 68, 100)

Kinematic

Viscosity Common measurement of viscosity using capillary tubes.

Molybdenum Disulfide

A dry-film lubricant sometimes added to oil for additional lubrication

Multigrade Oil

Engine oil which meets the requirements of more than one SAE viscosity grade classification; performs over a wider temperature range than a single grade oil

Naphthenic Oil

Hydrocarbon with ring structures; more reactive than paraffinic oils but more soluble with additives and better low temperature properties

NLGI (National Lubricating Grease Institute)

Trade association specialising in grease NLGI Consistency Grades Rating the consistency of grease (e.g. NLGI-2)

OAT

Organic Acid Technology. An OAT coolant relies on inhibitors such as organic acid salts for corrosion and cavitation protection.

OEM

Original equipment manufacturer

Oxidation

A form of chemical deterioration of the base oil of a lubricant

PAO

Polyalphaolefin, a common synthetic base stock

Paraffinic Oil

Hydrocarbon with saturated carbon chains; relatively nonreactive with excellent oxidation stability in contrast to naphthenic oils

Penetration (grease)

Measure of the consistency of a grease

Pour Point

The lowest temperature at which a fluid will flow; common measure of a fluid's low temperature performance

Pour Point Depressant

Additive used to lower the pour point of a lubricant

PPM

Parts per million (1 ppm = 0.0001%)

R&O Oil

Oils with only rust and oxidation inhibiting additives

Rust Inhibitor

Additive for protecting iron and steel components from rusting caused by water contamination

SAE (Society of Automotive Engineers)

Organisation responsible for the establishment of many U.S. automotive standards, including the viscosity classifications of engine oils and gear oils

SAE Viscosity Grades

Viscosity grades for oil set by SAE; suffix "W" (e.g., SAE 20W) denotes suitability for winter use

SCA

Supplemental Coolant Additives

Sulfated Ash

The ash content of fresh, compounded lubricating oil; Indicates level of metallic additives in the oil

Synthetic Base Oil

A lubricating fluid made with synthetic base stock featuring higher lubrication performance than a conventional lubricant

TAN

Total acid number. Measurement of the acid-like behavior of an oil. TAN increase is used to evaluate the oxidative deterioration of a lubricant. Caution: some modern oils contain additives which are recognized as acidic by ASTM D664 and not an indication of degradation. Because of this, TAN is not necessarily a meaningful comparison between virgin fluids

TBN

Total base number. Measurement of the base-like behavior of an oil. A value often used to measure an engine oil's ability to neutralize acidic byproducts of the combustion process. TBN retention demonstrates an engine oil's longevity over the course of a drain interval. Caution: with ultra-low sulfur diesel (ULSD), sulfuric/sulfurous acid is less likely to form in combustion of diesel fuel so TBN values are less important with CJ-4/CK-4 oils than CI-4 and previous

Viscosity Measurement

A measure of a fluid's resistance to flow ("thickness")

Viscosity Index

Relates the dependency of viscosity on temperature of an oil

Viscosity Index Improver

Additive that reduces the tendency of an oil to change viscosity with temperature

Wear

The rubbing away of a metal surface due to mechanical action

ZDDP (Zinc Dialkyl Dithiophosphate)

Widely used as an antiwear agent in motor oil

THE STRENGTH BEHIND YOU



THE STRENGTH BEHIND YOU

newholland.com/au

NEW HOLLAND
31-53 Kurrajong Road, St Marys NSW, 2760, Australia



New Holland Agriculture and New Holland Construction Australia reserves the right to make improvements in design and changes in specifications at any time without notice and without incurring any obligation to install them on units previously sold. The specifications, descriptions and illustrative material contained herein are as accurate as known at time of publication, but are subject to change without notice. Illustrations may include optional equipment and accessories and may not include all standard equipment.