

WORKING MACHINE

Our WOMAC range brings it all together our Working Machine's products such as agriculture, transport, public works and construction.

The agricultural machinery that has accompanied your development has become today a concentrate of technological innovations of high performance... and of a high value that should be maintained with the utmost attention.

Because the profitability and the development of your company is a permanent challenge, in a fought-over activity sector, nothing can be left to chance. Any risk to the vehicle is not permitted : the HAFA transport lubricants range, which very closely follows the manufacturers' technological requirements, is a guarantee of safety.




The use of more and more efficient machines, under the demanding conditions of construction sites, makes the choice of lubricants to ensure their maintenance a real strategic decision.

The WOMAC lubricants range optimally responds to these constraints, to ensure optimal and durable operation of all the parts of your equipment. We also support you in the implementation of adapted solutions to manage the maintenance management of your fleet of complex machines.




MOTOR OIL

Engine oil approved by the manufacturers.

APPELLATION	NATURE	APPLICATIONS	SPECIFICATIONS
FULL SAPS			
WOMAC PREMIUM FULL 5W-30 	Synthetic	Stems from the latest formulation of lubricants meeting the requirements of the strict EURO VI emission control regulations. Specially developed for the protection of the new low-emission diesel engines with reduced emissions for vehicles equipped with particulate filters and exhaust after-treatment systems. Uses state-of-the-art technology to deliver exceptional performance while reducing fuel consumption.	ACEA E4, E6, E7, E9 / API CJ-4 / Caterpillar ECF-3 / Cummins CES 20081 / DD 93K218 / Deutz DQC IV-10 LA / JASO DH-2 / Mack EO-O PP / MAN M3477/M3271-1/M3575/M3677 / MB 228.51 / MTU type 3.1 / RVI RLD-3 / Volvo VDS-4 / Scania LDF-4
WOMAC PREMIUM FULL 10W-40	Synthetic	Specially formulated for the lubrication of the latest generation diesel engines meeting the requirements of the EURO V and EURO VI emission control rules. Formulated from a new additive technology, providing a guarantee of optimum operation of post-treatment systems (EGR, SCR or particulate filters). Due to its compliance with all ACEA E4/E6/E7/E9 requirements, enables simplified maintenance and logistics, as well as a reduced error risk.	ACEA E4, E6, E7, E9 / API CJ-4 / Caterpillar ECF-3 / Cummins CES 20081 / DD 93K218 / Deutz DQC IV-10-LA / JASO DH-2 / Mack EO-O PP / MAN M 3477/M 3575/M 3271-1 / MB 228.51 / MTU type 3.1 / RVI RLD-3 / Volvo VDS-4
WOMAC PREMIUM E6 5W-30 	Synthetic	For heavy duty engines particularly designed for the lubrication of Euro IV, V and VI diesel engines (TIER 3, 4) fitted with particulate filters (DPF) or catalytic exhaust gas treatment (such as SCR). Specially developed for the protection of new low emission diesel engines. Uses state-of-the-art technology to deliver exceptional performance while reducing fuel consumption.	ACEA E4, E6, E7, E9 / API CK-4/SN / Caterpillar ECF-3 / Cummins CES 20086 / DDC DFS 93K222 / Deutz DQC IV-18 LA / JASO DH-2 / Mack EO-S 4.5 / MB 228.51 / MTU Type 3.1 / RVI RLD-3 / Volvo VDS 4.5
WOMAC PREMIUM E6 10W-30 	Semi-synthetic	Stems from the latest formulation of lubricants meeting the requirements of the strict EURO VI emission control regulations. Specially developed for the protection of the new low-emission diesel engines for vehicles equipped with particulate filters and exhaust after-treatment systems. Uses state-of-the-art technology to deliver exceptional performance while reducing fuel consumption.	ACEA E6, E7, E9 / API CK-4 / Cat ECF-3 / DD 93K218 / Deutz DQC IV-10 LA / Mack EO-S 4.5 / MAN M3477 / MB 228.51 / RVI RLD-4 / VOLVO VDS-4.5
WOMAC PREMIUM E6 10W-40	Semi-synthetic	Specially formulated for the lubrication of latest generation diesel engines meeting the requirements of the EURO IV, V and EURO VI emission control rules. The Performance levels is essential to guarantee the efficiency and service life of some exhaust post-treatment exhaust systems on EURO IV, V and EURO VI type engines.	ACEA E6, E7, E9 / API CI-4 / Cummins CES 20076/77 / Deutz DQC IV-10 LA / Mack EO-N / MAN M 3477 / M 3271-1 / MB 228.51 / MTU type 3.1 / RVI RLD-2 / VOLVO VDS-3

MID SAPS

WOMAC PREMIUM E9 10W-30 	Semi-synthetic	Specially formulated for the lubrication of the latest generation diesel engines meeting the requirements of the EURO IV, V and EURO VI emission control rules. Is also recommended for engines of public works and agriculture machinery meeting the Tier 4 emission standard. Is formulated from a new technology of additives and base oils, Group II, to ensure optimum operation of exhaust gas post-processing systems such as particulate filters and catalysts fitted to most current engines.	ACEA E7, E9 / API CK-4 / Cat ECF-3 / DD 93K222 / Mack EO-S 4.5 / MAN M 3775 / RVI RLD-3 / VOLVO VDS-4.5 / CES 200 86 / MB 228.31 / DQC III-10 LA
WOMAC PREMIUM E9 10W-40	Semi-synthetic	Specially formulated for the lubrication of the latest generation diesel engines meeting the requirements of the EURO IV, V and EURO VI emission control rules. Also recommended for engines of public works and agriculture machinery meeting the Tier 4 emission standard. Formulated from a new technology of additives and base oils, Group II, to ensure optimum operation of exhaust gas post-processing systems such as particulate filters and catalysts fitted to most current engines.	ACEA E7, E9 / API CJ-4/CK-4 / Caterpillar ECF-3 / Cummins CES 20086 / DDC DFS 93K222 / Deutz DQC III-10 LA / Mack EOS-4.5 / MAN M 3775 / MB 228.31 / MTU type 2.1 / RVI RLD-3 / VOLVO VDS-4.5
WOMAC PREMIUM E9 15W-40	-	Specially formulated for the lubrication of the latest generation diesel engines meeting the requirements of the EURO IV, V and EURO VI emission control rules. Also recommended for engines of public works and agriculture machinery meeting the Tier 4 emission standard. Formulated from a new technology of additives and base oils, Group II, to ensure the optimum operation of exhaust gas post-processing systems such as particulate filters and catalysts fitted to most current engines.	ACEA E7, E9 / API CK-4/SN / Caterpillar ECF-3 / Cummins CES 20086 / DDC DFS 93K222 / Deutz DQC III-10 LA / Ford WSS-M2C171-F1 / Mack EOS-4.5 / MAN M 3775 / MB 228.31 / MTU type 2.1 / RVI RLD-3 / VOLVO VDS-4.5

LOW SAPS

WOMAC PREMIUM E4/E7 10W-40	Synthetic	Specifically formulated for the lubrication of diesel engines meeting the requirements of the EURO IV emission control rules for which an ACEA E7 / E4 performance level is required. WOMAC PREMIUM E4/ E7 makes it possible to achieve the intervals of oil changes recommended by the main manufacturers of European trucks and buses. Can also be used in off-road equipment and in other equipment, that requires this level of performance.	ACEA E4, E7 / API CI-4 / Cat ECF-2 / Cummins CES 20078 / Deutz DQC IV-10 / JASO DH-1 / Mack EO-N / MAN M 3377 / MB 228.5 / MTU type 3 / RVI RLD-2 / VOLVO VDS-3
WOMAC PREMIUM E7 10W-40	Semi-synthetic	Recommended for the lubrication of supercharged Diesel engines, in particular EURO III and EURO IV engines, operating under very severe conditions. Formulated on a synthetic basis and its high-performance additives, allows long-lasting lubrication. Also intended for the lubrication of engines used in the agricultural field and particularly recent technology engines meeting the US EPA TIER 3 pollution control standard.	ACEA E7 / API CI-4/SL / Cummins CES 20076/20077 / MAN M3275-1 / MACK EO-N / MB 228.3 / MTU Type 2 / RVI RLD-2 / Volvo VDS-3
WOMAC PREMIUM E7 15W-40	-	Super High Performance Diesel (SHPD) lubricant suitable for the lubrication of powerful diesel engines manufactured by European, American and Japanese manufacturers for road and non-road applications. It ensures optimum protection against the severe stresses encountered in heavily loaded engines that meet the EURO IV emission standards and the requirements of the ACEA E7.	ACEA E7 / ACEA A3/B4 / API CI-4/SL / Cat ECF-2 / Cummins CES 20077/20078 / JASO DH-1 / MACK EO-N / MAN M3275-1 / MB 228.3 / MTU Type 2 / Volvo VDS-3 / RVI RLD-2
WOMAC PREMIUM E7 SC 10W-40	Synthetic	High performance synthetic oil designed in accordance with current ACEA requirements and the most demanding specifications of manufacturers including the Scania LDF-3 standard for Euro VI engines of the latest technology. Perfectly suitable for Scania Euro VI motors and backward compatible with Euro V, Euro IV, Euro III and Euro II motors. Exceptional performance thanks to the presence of synthetic bases combined with high performance additives.	ACEA E7, ACEA E4 / API CF / MAN M 3277 / MB 228.5 / RVI RLD-2 / VOLVO VDS-3 / Mack EO-N / DAF Extended drain / Deutz DQC III-10 / MTU type 3 / Scania LDF-3

Current packaging :



MOTOR OIL

Engine oil meeting the manufacturer's requirement. All of our INITIAL oils are Full SAPS.

APPELLATION	NATURE	APPLICATIONS	SPECIFICATIONS
WOMAC INITIAL E4 5W-30	Synthetic	Formulated specifically for the lubrication of diesel engines meeting the requirements of the EURO IV and EURO V emission limitation regulations, for which an ACEA E7 or E4 performance level is required. Its low viscosity provides a reduction in engine internal friction forces and therefore a saving in fuel consumption. Efficient lubrication under the most severe conditions, and allows the extension of the intervals between oil changes as recommended by the manufacturers of HGV vehicles. The IVECO 18-1804 performance level requires the lubricant to be both 5W-30 and ACEA E4.	ACEA E4, E7 / MAN M 3277 MB 228.5 / Deutz DQC IV-10 / MTU type 3 / DAF Extended Drain Ford WSS-M2C-212A-1 / Scania LDF-3 / Volvo VDS-3 / Mack EO-N / RVI RLD-2 / CUMMINS CES 20077
WOMAC INITIAL E4 10W-40	Synthetic	Formulated specifically for the lubrication of diesel engines, meeting the emission requirements of Tier 3 or Stage IIIA pollution standards. It ensures efficient lubrication in the most severe conditions and allows the extension of the intervals between oil changes, as recommended by the manufacturers, to significantly reduce vehicle downtimes. Particularly recommended in the sectors of public works, mines, quarries, agriculture and materials handling.	ACEA E4, E7 / API CI-4 / Cat ECF-2 / Cummins CES 20078 / Deutz DQC IV-10 / JASO DH-1 / MTU type 3
WOMAC INITIAL E7 15W-30	-	"Energy saving", mineral technology based, SHPD (Super High Performance Diesel), lubricant. Specially developed for low polluting industrial vehicle engines according to Euro II, Euro III and Euro IV standards. Particularly adapted for use in the most severe operating conditions encountered in the field of transport, public works, bus lines, etc. Also intended for the lubrication of engines used in the agricultural sector meeting the emission standard Tier 3.	ACEA E7 / API CI-4 / SL / Cat ECF-2 / Cummins CES 20077/20078 / MACK EO-N / MAN M3275-1 / MB 228.3 / RVI RLD-2 / VOLVO VDS-3
WOMAC INITIAL E5 15W-40	-	SHPD type lubricant, grade SAE 15W-40, particularly suitable for the lubrication of supercharged, turbo-charged or naturally aspirated diesel engines, and contributes to compliance with the anti-pollution standards required on Euro II and Euro III engines. Suitable for use in the most severe operating conditions encountered by transportation activities, public works and agricultural machinery.	ACEA E5 / API CH-4 / SJ / MAN M3275-1 / MB 228.1 / MTU type 2 / Volvo VDS-2
WOMAC INITIAL E3 15W-40	-	SAE 15W-40 grade SHPD lubricant particularly suitable for the lubrication of the previous generation of turbo charged diesel engines, in particular engines meeting the EURO II and EURO III emission standards. Ideal for all transport, agricultural or public works activities, on short and long distances.	ACEA E3 / API CG-4/SJ / MAN 3275-1 / MB 228.1 / VOLVO VDS
WOMAC INITIAL E2 15W-40	-	Suitable for the lubrication of older generation supercharged or naturally aspirated diesel engines, in vehicles which can operate under severe operating conditions. Suitable for engines of public works equipment requiring oil of the API CG-4 classification.	ACEA E2 / API CG-4/SH / MAN 271 / MB 228.1 / VOLVO VDS
WOMAC INITIAL E2 20W-50	-	Suitable for the lubrication of older generation turbocharged, supercharged or naturally aspirated, diesel engines, which can operate under severe conditions of use exposing the engine to high temperatures. Also suitable for engines of public works, agricultural, road vehicles/machinery when the manufacturer authorizes the use of a mineral oil viscosity 20W-50 with the specifications quoted beside.	ACEA E2 / API CG-4/SH / MAN 271 / MB 228.1 / VOLVO VDS
WOMAC INITIAL CNG 15W-40	-	High performance lubricant formulated on a low ash technology, recommended for the lubrication of heavy duty vehicles or buses fitted with CNG (compressed natural gas) engines and other LPG (liquefied petroleum gas) vehicles. Suitable when the Cummins 20074 standard is required.	Cummins CES 20074
WOMAC INITIAL CF 10W-30	-	Mineral-based engine lubricant developed for use in petrol and diesel engines for which the manufacturer recommends API SJ/CF specification or an earlier specification with SAE 10W-30 viscosity. Can also be used in gearboxes or hydraulic systems of certain types of handling equipment.	API SJ/CF

MONOGRADE OIL

If you live somewhere with high ambient temperatures, your car or light truck needs a monograde motor oil that is liquid engineered to protect from the moment the engine starts, resist thermal breakdown and keep delivering protection in even the hottest operating conditions.

WOMAC MONO 10W	-	Particularly suitable for hydraulic systems and transmissions for which a monograde motor oil of SAE 10W viscosity with dispersant/detergent properties is required. Used in different applications including agriculture, public works, mechanised farming, etc.	API SG / CD
WOMAC MONO 20W	-	Particularly recommended for engines used for light duty service when a monograde oil with a SAE 20W viscosity is recommended. Also suitable for certain hydraulic systems such as LIEBHERR or in lifting systems of some FENDT models requiring SAE 20W-20 viscosity engine oil.	API SG / CD
WOMAC MONO 30	-	Recommended specially for engines used for light duty service, when a monograde oil is recommended. WOMAC MONO SAE 30 can also be used for the lubrication of various equipment, such as certain hydraulic systems or gearboxes avoiding sulphur additives (powershift gearbox).	API SG / CD
WOMAC MONO 40	-	Recommended specially for engines used for light duty service, when a monograde oil is recommended. Can also be used for the lubrication of various equipment, such as gearboxes on some trucks and machines.	API SG / CD
WOMAC MONO 50	-	Particularly recommended for engines used for light duty service, when a monograde oil is recommended. Can also be used in petrol engines that require API SG classification.	API SG / CD

MULTI-PURPOSE MULTIGRADE OIL

Range of STOU-type multigrade engine oils to lubricate engines for civil works and agricultural equipment, forestry and handling machinery.

WOMAC STOU 10W-40	Semi-synthetic	Intended for the lubrication of the various components of agricultural tractors. Suitable for the lubrication of turbocharged, supercharged and naturally aspirated diesel engines, and mechanical transmissions, on agriculture and public works machines fitted with wet brakes, hydraulic lifting and assistance systems, when in keeping with the performance levels listed below. Also recommended by manufacturers for powershift transmissions and some continuously variable transmissions of agricultural machinery.	ACEA E3 / API CG-4 / SF API GL-4 / FORD M2C 159 B, C / MF M1144 / 1145 ZF TE-ML 06B, C, 07B, D / JOHN DEERE J27 FORD M2C134 A / CAT TO-2 ALLISON C-4
WOMAC STOU 15W-40	-	Intended for the lubrication of the different components of agricultural tractors. Suitable for the lubrication of the supercharged or non-supercharged diesel engines, mechanical transmissions on agriculture and public works machines fitted with wet brakes and hydraulic lift and assistance systems, in accordance with the performances mentioned beside.	API CD/SE API GL 4 FORD M2C 159 B/C MF M 1135 / 1139

TRANSMISSION OIL

Transmission lubricants are defined here as oils formulated to meet the lubrication needs of truck or passenger car (manual or automatic) transmissions. Transmission fluid is truly the symbol of technology in motion.

APPELLATION	NATURE	APPLICATIONS	SPECIFICATIONS
-------------	--------	--------------	----------------

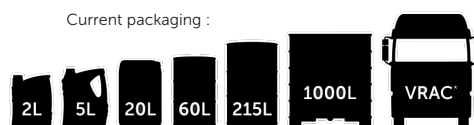
AUTOMATIC TRANSMISSION FLUID

WOMAC GEAR ATF DVI	Synthetic	Meeting the Dexron VI standard, for the new generation of automatic transmissions. For automatic gearboxes, oil bath clutches, power steering, steering boxes, transfer boxes, hydraulic cab tilting systems, truck lifts, etc. ATF fluid particularly suitable for heavy goods vehicles, public works or handling equipment, agricultural machinery, buses, etc., when one of the specifications is required.	ALLISON C-3, C-4 / FORD MERCON, WSS M2C 138 CJ, WSS M2C 166H, WSS M2C 922 A1, WSS M2C 924 A, JWS 3309 / GM DEXRON II, IID, IIE, IIIG, IIH, VI / TASA / JASO M315-2013 1A, M315-2013 1A-LV, M315-2013 2A / Diaqueen SK, SP-II, SP-III, AW, J2, J3, ATF PA / VOITH 55.6335.xx (G607) / VOLVO CE 97340, 97325, 97335 / ZF TE-ML 05L/09/11A/11B/21L
WOMAC GEAR ATF D III	Semi-synthetic	For automatic transmissions, torque converters, power steering, hydrostatic transmissions, hydraulic cab tilting systems, truck lift, etc., that meets the Dexron III standard. ATF fluid particularly suitable for heavy goods vehicles, public works or handling equipment, agricultural machinery, buses, etc., when one of the following specifications is required.	ALLISON C-4 / FORD MERCON / GM DEXRON IIIG / MAN 339 Type V-1 / MAN 339 Type Z-1 / MB 236.1 / MB 236.5 / VOITH 55.6335 / VOLVO 97341 / ZF TE-ML 02F/03D/04D/05L/09/11B/14 A/17C/21L
WOMAC GEAR ATF D II	-	Suitable for the lubrication of automatic or semi-automatic transmissions, hydraulic couplings, torque converters, power steering, hydrostatic transmissions, boat reversing systems, etc when one of the specifications below is required. Dexron II type ATF fluid mainly used for agricultural or public works machinery.	ALLISON C-4 / ALLISON TES-228 / GM DEXRON IID / GM DEXRON IIE / MB 236.1 / MB 236.9 / TASA / VOLVO 97340 / ZF TE-ML 05L/09/21L
WOMAC GEAR ATF 33 F/G	-	Recommended for all transmissions and hydraulic circuits of construction and public works machinery, plus light vehicles, for which the manufacturer recommends a type Ford M2C 33 F or M2C 33 G fluid. Suitable for the lubrication of automatic gearboxes, torque converters, power steering systems, hydraulic clutches and hydrostatic transmissions requiring this type of lubricant.	FORD M2C 33 F / FORD M2C 33 G / VOLVO 97330

TRANSMISSION FLUID

WOMAC GEAR GL4 75W-80	Synthetic	Suitable for the lubrication of tricky and stiff gearboxes in cold weather and allows extended intervals between oil changes. Specifically designed for the Intarder equipped gearboxes, for manual synchronized gearboxes and automated manual gearboxes. Also suitable for new gearboxes equipped with carbon synchronizer.	API GL-4 / MAN 341 type Z-4 / VOLVO 97305 / ZF TE-ML 08 / ZF TE-ML 02L/01L/16K
WOMAC GEAR GL4 75W-80 FE	Synthetic	Specially developed for the lubrication of manual and robotic gearboxes of industrial vehicles operating under the most severe conditions of use. Formulated to meet the most stringent requirements of the manufacturers. Specially suitable for gearboxes fitted with Intarder, for Volvo gearboxes requiring a Volvo 97307 level, as well as for manual gearboxes for industrial and commercial vehicles of RENAULT TRUCKS, MAN, DAF, IVECO.	API GL-4 / MAN 341 type Z-5 / MB 235.28 / VOITH Class B / VOLVO 97307 / ZF TE-ML 01E, 02E, 16P
WOMAC GEAR GL4 80W	-	Lubrication of mechanical transmissions : mechanical gearboxes and hypoid axle assemblies operating under moderate conditions, steering boxes for passenger and heavy goods vehicles, public works machinery, agricultural or materials handling machinery, when API GL-4 performance level and SAE 80W viscosity are required. Designed to operate under normal conditions of use and is intended for the use of low loaded components.	API GL-4
WOMAC GEAR GL4 80W-90	-	Lubrication of mechanical transmissions: mechanical gearboxes, reducers, angular-spiral bevel gearboxes, etc., for passenger cars, trucks, agriculture or public works machinery when the API GL-4 performance level is required. Designed to operate under normal conditions of use and is intended for the use of low loaded components.	API GL-4
WOMAC GEAR GL4 85W-140	-	Lubrication of mechanical transmissions: mechanical gearboxes, reducers, angular-spiral bevel gearboxes etc., for passenger cars, trucks, agriculture or public works machinery when the API GL-4 performance level is required. Designed to operate under normal conditions of use and is intended for the use of low loaded components.	API GL-4
WOMAC GEAR TDL 75W-90	Semi-synthetic	Lubricate the entire drive train: synchronized or non-synchronized gearboxes, transfer cases, axle assemblies, differentials, differentials, final drives etc. Mostly recommended for all types of road vehicles, particularly heavy goods vehicles and certain public works and agricultural machinery.	API GL-4 / API GL-5 / MAN 341 Z2 / MAN 342 M2 / SCANIA STO 1:0 / VOLVO 97310 / ZF TE-ML 01, 02B, 05A, 07A, 08A, 16B, 16D, 17B
WOMAC GEAR TDL 80W-140	Semi-synthetic	High-performance semi-synthetic lubricant that lubricates the entire cinematic drive train: axle assemblies, gearmotors, differentials, end reducers, final drives etc. Mostly recommended for all types of road vehicles, particularly heavy goods vehicles, buses, light commercial vehicles, cars and certain public works and agricultural machinery.	API GL-4 / API GL-5 / API MT-1 / MIL PRF 2105 E / SAE J2360 / MACK GO-J / MAN 3343M / SCANIA STO 1:0
WOMAC GEAR TDL 75W-90 S	Synthetic	Lubricate the entire transmission drive line (synchronized or non-synchronized gearbox, differential and axle assembly, etc.) of all types of road vehicles, in particular heavy goods vehicles, and public works or agriculture machinery, which operate under the most severe conditions of use. TDL product (Total Drive Line) which allows it to be used in gearboxes and in axle assemblies.	API GL-4 / API GL-5 / MIL-PRF-2105 E / MAN 341 Z2 / MAN 342 M2 / PONT RVI P1370 / SCANIA STO 1:0 / VOLVO 97310 / ZF TE-ML 02B, 05A, 07A, 08A, 16B/D, 17B
WOMAC GEAR TDL 75W-140 S	Synthetic	Lubricate the entire transmission drive line of all types of road vehicles, in particular heavy-goods vehicles and public works or agricultural machinery, which operate under the most severe conditions of use. Designed for the axle assemblies and differentials of industrial or road vehicles which require SAE 75W-140 viscosity gear lubricants.	API GL-4 / API GL-5 / MIL-PRF-2105 E / MAN 342 M2 / MAN 341 Z2 / SCANIA STO 1:0
WOMAC GEAR TDL 75W-90 V	Synthetic	Designed for the lubrication of transmissions components, non-synchronized manual gear boxes, differentials, final drives, axles, etc. Formulated for use on highly stressed transmissions subjected to overloads and extreme pressures, requiring a lubricant with excellent load capacity.	API GL-4 / API GL-5 / SAE J 2360 / API MT-1 / MIL-PRF-2105E / MAN 341 Type Z2 / MAN 342 Type S1 / VOLVO 97312 / SCANIA STO 1:0 / ZF TE-ML 02B, 04G, 05A/B, 07A, 12B/L/N, 16B/F, 17B, 19B/C, 21A/B / MB 235.8 / Mack GO-J / ARVIN MERITOR 0-76-N / DD DFS93K219.01

Current packaging :





AXLE TRANSMISSION FLUID

WOMAC GEAR GL5 80W	-	Used in many applications: mechanical gearboxes, differentials, end reducers or hypoid axle assemblies for passenger and heavy goods vehicles, public works, handling or agricultural machinery, when the performance level API GL-5 and a viscosity SAE 80W are required. Designed to operate under very severe conditions (high loads, shocks, high temperatures etc.).	API GL-5
WOMAC GEAR GL5 80W-90	-	Used in a wide range of applications: mechanical gearboxes, differentials, end reducers or axle assemblies on passenger cars, trucks, agriculture or public works machinery when the API GL-5 performance level is required. Designed to operate under very severe conditions (high loads, shocks, high temperature etc.).	API GL-5 / MIL PRF-2105 E / MAN 342 M1 / M2
WOMAC GEAR GL5 85W-140	-	Used in a wide range of applications: differentials, end reducers or axle assemblies for passenger cars, heavy goods vehicles, public works or agricultural machinery when the API GL-5 performance level with SAE 85W-140 viscosity is required. Designed to operate under very severe conditions (high loads, shocks, high temperatures etc.).	API GL-5 / MIL PRF-2105 E / ZF 05A / 12E / 16C / 21A
WOMAC GEAR GL5 80W-90 S	Semi-synthetic	Lubrication of mechanical transmissions of road vehicles and agriculture machinery as well as high-performance industrial gears. Particularly suitable for applications such as axle assemblies, differentials, gear trains of commercial vehicles used in harsh conditions. It ensures effective lubrication against galling of the gear teeth.	API GL-5 / MIL PRF-2105 E
WOMAC GEAR GL5 80W-140 S	Semi-synthetic	Lubrication of axle assemblies of road vehicles, public works or agriculture machinery as well as high-performance industrial gears. Particularly suitable for applications such as axle assemblies, differentials, gear trains of commercial vehicles or heavy goods vehicles used in harsh conditions. Effective lubrication against galling of the gear teeth.	API GL-5 / MIL PRF-2105 E
WOMAC GEAR GL5 LS 80W-90	-	Extreme pressure mineral lubricant specially adapted for the lubrication of highly loaded mechanical transmissions, equipped with limited slip self-locking axle assemblies fitted on public works and agriculture machinery. Can also be used on axle assemblies not fitted with self-locking differentials requiring an oil grade API GL-5.	API GL-5 LS
WOMAC GEAR GL5 LS 85W-140	-	Extreme pressure mineral lubricant specially adapted for the lubrication of highly loaded mechanical transmissions, equipped with limited slip self-locking axle assemblies fitted on public works and agriculture machinery. Can also be used on axle assemblies not fitted with self-locking differentials requiring API GL-5 level oil combined with SAE 85W-140 viscosity.	API GL-5 LS
WOMAC GEAR TPA 80W-90	-	High-performance oil designed for the lubrication of axle assemblies, equipped with a limited-slip self-locking differential, fitted to the transmission systems of public works or agricultural machinery. Suitable for the lubrication of axle assemblies of specific construction equipment such as LIEBHERR, TEREX, by meeting the requirement of a phosphorus content higher than 1900 ppm. Also be used on axle assemblies not fitted with self-locking differentials requiring an oil grade API GL-5.	API GL5 LS / MIL-L-2105D / ZF TE-ML 05C, 07, 12C, 16E, 21C

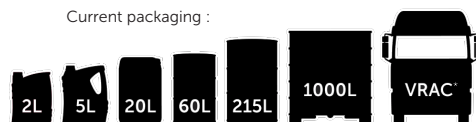
CATERPILLAR TRANSMISSION FLUID

WOMAC GEAR TO4 30	-	Specifically formulated to meet the requirements of the lubrication of powershift or mechanical transmissions, transaxles, final drives etc., of CATERPILLAR equipment. Also particularly suitable for the lubrication of KOMATSU machines.	ALLISON C-4 / CATERPILLAR TO-4 / KOMATSU KES 07.868.1
WOMAC GEAR TO4 50	-	Specifically formulated to meet the requirements of the lubrication of powershift or mechanical transmissions, transaxles, final drives etc., of CATERPILLAR equipment. Also particularly suitable for the lubrication of KOMATSU machines.	ALLISON C-4 / CATERPILLAR TO-4 / KOMATSU KES 07.868.1

BIODEGRADABLE TRANSMISSION LUBRICANT

 WOMAC GEAR AURAE 150	Synthetic	Biodegradable lubricant formulated from a base of synthetic esters of saturated ester type, for the lubrication of industrial reducers/gearboxes likely to cause environmental pollution as a result of leaks. Intended for the lubrication of helical gears, bevel gears, planetary gears operating under heavy loads.	DIN 51517 Part 3 CLP
 WOMAC GEAR AURAE 220	Synthetic	Biodegradable lubricant formulated from a base of synthetic esters of saturated ester type, for the lubrication of industrial reducers/gearboxes likely to cause environmental pollution as a result of leaks. Intended for the lubrication of helical gears, bevel gears, planetary gears operating under heavy loads.	DIN 51517 Part 3 CLP

Current packaging :

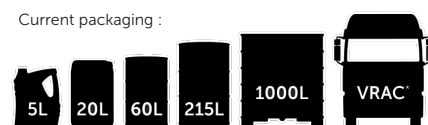


HYDRAULIC OIL

Hydraulic fluid is a key component in the hydraulic system. It's the fluid that transfers power from the pump to various parts of the hydraulic system. In addition to this it also lubricates the system, acts as a heat-transfer medium, and prevents wear and corrosion

APPELLATION	NATURE	APPLICATIONS	SPECIFICATIONS
WOMAC HYDROL HM 32	-	Specially adapted for stationary or mobile hydraulic systems requiring an anti-wear ISO VG 32 grade hydraulic oil of the type HM or HLP. Designed for hydraulic systems containing vane, screw or gear pumps. Can also be used for the lubrication of mechanisms with circulation or splash lubrication (bearings, various mechanisms etc.).	AFNOR NF E 48 603 HM / ISO 6743-4 HM
WOMAC HYDROL HM 46	-	Specially adapted for stationary or mobile hydraulic systems requiring an anti-wear ISO VG 46 grade hydraulic oil of the type HM or HLP. Designed for hydraulic systems containing vane, screw or gear pumps. Can also be used for the lubrication of mechanisms by circulation or splash (bearings, various mechanisms etc.).	AFNOR NF E 48 603 HM / ISO 6743-4 HM
WOMAC HYDROL HM 68	-	Hydraulic fluid specially adapted for stationary or mobile hydraulic systems requiring an anti-wear ISO VG 68 grade hydraulic oil of the type HM or HLP. Designed for hydraulic systems containing vane, screw or gear pumps. Can also be used for the lubrication of mechanisms by circulation or splash lubrication (bearings, various mechanisms etc.).	AFNOR NF E 48 603 HM / ISO 6743-4 HM
WOMAC HYDROL HM 100	-	HM-type anti-wear hydraulic oil for lubricating the hydraulic circuits of industrial or mobile equipment. Designed to operate in normal usage conditions with regards to operating temperature and hydraulic circuit pressure. Formulated with selected base oils and stabilised zinc-based additives, which gives them anti-wear, anti-oxidising and anti-corrosion properties.	AFNOR NF E 48 603 HM / ISO 6743-4 HM / ISO 11158 HM
WOMAC HYDROL HV 22	-	Developed for the lubrication of hydraulic systems operating under severe conditions. The high viscosity index of the lubricant contributes to its excellent properties at low and high temperatures. Particularly suitable for machines working outdoors, due to its low temperature start-up facility, ideal for public works, quarrying, forestry, agricultural machinery etc., requiring ISO VG 22 viscosity.	AFNOR NF E 48 603 HV / DIN 51524-3 HVLP / ISO 6743-4 HV
WOMAC HYDROL HV 32	-	High viscosity index hydraulic oil recommended for industrial or mobile hydraulic units requiring HV or HVLP type oil with viscosity grade ISO VG 32. Specially designed for hydraulic systems operating in a wide temperature range where cold starts and high operating temperatures are common. Anti-wear zinc-based additive, is ideal for use in systems requiring a high load capacity.	AFNOR NF E 48 603 HV / ISO 6743-4 HV
WOMAC HYDROL HV 46	-	High viscosity index hydraulic oil recommended for hydraulic industrial or mobile units requiring HV or HVLP type oil with a ISO VG 46 viscosity grade. Specially designed for hydraulic systems operating in a wide temperature range during which cold starts and high operating temperatures are common. Wear protection zinc-based additive allows its use in systems requiring a high load capacity.	AFNOR NF E 48 603 HV / ISO 6743-4 HV
WOMAC HYDROL HV 68	-	High viscosity index hydraulic oil recommended for hydraulic industrial or mobile units requiring HV or HVLP type oil with a ISO VG 68 viscosity grade. Specially designed for hydraulic systems operating in a wide temperature range where cold starts and high operating temperatures are common. Zinc-based additive protection allows its use in systems requiring a high load capacity.	AFNOR NF E 48 603 HV / ISO 6743-4 HV
WOMAC HYDROL HV 46 C	-	Designed for use in all hydraulic systems undergoing temperature variations. Suitable for the lubrication of public works or agricultural machinery as well as any hydraulic system where a HV 46 fluid is required. Zinc-based hydraulic oil which protects against wear. Its green colour makes it possible to detect even the slightest leak.	AFNOR NF E 48 603 HV / ISO 6743-4 HV
WOMAC HYDROL HVLDP 46	-	Detergent hydraulic oil, anti-wear and ashless, with a high viscosity index. Particularly recommended in systems subject to temperature variations and in harsh environments where the presence of water is unavoidable. Application in the hydraulic systems of public works/construction machinery, or the telescopic systems of forklifts, material handlers, trollies etc., where the manufacturer recommends a detergent hydraulic oil.	DIN 51524-3 HVLDP
WOMAC HYDROL HV 46 PO	-	High-viscosity, anti-wear hydraulic fluid, with a high viscosity index, which has been specially designed to meet the requirements of certain machinery operating under severe temperature and pressure conditions. Especially suited to the lubrication of POCLAIN, RICHIER, PINGON machinery, and any hydraulic systems of agricultural or public works equipment, where a high performance fluid of ISO HV 46 grade is required. High-performance oil with excellent oxidation resistance to maintain stable performance during extended periods of use.	AFNOR NF E 48 603 HV / DIN 51524-3 HVLP / ISO 6743-4 HV
WOMAC HYDROL HV ZF 46	-	ISO VG 46 hydraulic lubricant intended for hydraulic circuits operating at high pressures as well as for installations with significant temperature differences. Hydraulic oil which benefits from its additivation without zinc, being ash-free, having a high thermal stability, and a greater resistance to oxidation. Remarkable stability even in the presence of water due to its high demulsifying power.	DIN 51524-3 HVLDP / ISO 6743-4 HV / Denison HF-0
WOMAC HYDROL HV PLUS 46	-	Wear-resistant hydraulic oil with a specific viscosity improving additive that enables its use in extreme temperature conditions. Can be used for all hydraulic systems which are heavily loaded and subjected to high temperature variations. Suitable for many application areas: for machinery used in public works, forestry, agricultural or industrial applications.	DIN 51524-3 HVLP / AFNOR NF E 48 603 HV / ISO 6743-4 HV
WOMAC HYDROL TO4 10W	-	Specifically formulated to meet the requirements of the lubrication of the hydraulic circuits, hydraulic brake systems, and hydrostatic transmissions, etc., of CATERPILLAR equipment. Also particularly suitable for the lubrication of KOMATSU machines.	ALLISON C-4 / CATERPILLAR TO-4 / KOMATSU KES 07.868.1
WOMAC HYDROL FLUID B	Paraffinic	Paraffinic-based lubricant suitable for general lubrication of low stressed hydraulic systems, via circulating, splashing or pressurised methods. Recommended to lubricate the hydraulic systems of skips, jacks, tailgates, pit jacks, hydraulic 2 and 4 post/column lifts, and scissor lifts, when the manufacturer recommends ISO VG 46 viscosity.	AFNOR NF E 48603 HL

Current packaging :



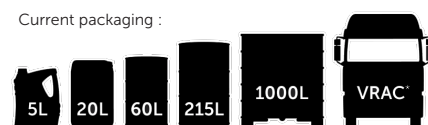
UTTO HYDRAULIC OIL

WOMAC HYDROL UTTO CH	-	For the transmissions, hydraulic circuits, clutch systems and wet brakes of agriculture and public works machinery. Specially developed to meet the stringent requirements of the lubrication of agricultural tractors and public works machinery or handling equipment. Particularly suitable for CASE IH hydrostatic transmissions with wet brakes.	TO-2 / MF 1127 B / MF M1141 / Case MS 1209 / Case MS 1207
WOMAC HYDROL UTTO V	-	Specially developed for use in the transmissions of VALTRA tractors requiring the standards VALTRA G2-08 or VALTRA G2-B10. Also recommended in transmissions, hydraulic circuits of agricultural and public works machinery equipped with wet clutches and disc brakes. By its compliance with ZF 06 D, ZF 06 E, ZF 06H specifications can be used in the DEUTZ CVT gearboxes (except the ZS-Matic box) and in the CLAAS CMatic boxes.	Valtra G2-08 / Valtra G2-B10 / ZF 06D, 06H, 06E, J20C / MF 1143 / MF 1145 / MAT 3525 / FORD M2C 86E / M2C 134 D
WOMAC HYDROL UTTO JVN	-	For the transmissions, hydraulic circuits, clutch and wet brakes of agriculture and public works machinery. Specially developed to meet the stringent requirements of the lubrication of agricultural tractors and public works machinery or handling equipment. Suitable for a wide range of equipment, which makes it possible to reduce the stock of lubricants and the risk of errors.	API GL-4 / Case New Holland MAT 3525 / Caterpillar TO-2 / FORD M2C 134 D / John Deere J 20 C / MF 1143 / MF 1145 / NH-410 B / Volvo WB 101
WOMAC HYDROL UTTO RF	-	For the transmissions, hydraulic circuits, clutch and wet brakes systems of agriculture and public works machinery. Specially formulated to reduce noise and chatter on wet brakes. Particularly recommended for tractors such as RENAULT, FIAT etc.	API GL4 / ALLISON C-4 / Caterpillar TO-2 / FIAT AF 87 / FORD M2C 86B / FORD M2C 134A / VOLVO WB 101
WOMAC HYDROL UTTO S	Synthetic	For transmissions, hydraulic circuits, clutch systems and wet brakes on agricultural, public works and handling machinery/equipment. Specially developed to meet the most stringent requirements of lubrication for machines operating in very difficult conditions.	API GL 4

BIODEGRADABLE HYDRAULIC LUBRICANT

 WOMAC HYDROL UTTO AURAE	-	Multifunctional hydraulic transmission oil, formulated from rapidly biodegradable natural oils and from a combination of high performance additives, which provide universal use in hydraulic/transmission systems with wet brakes, particularly on public works and agricultural machinery. Its particularly high viscosity index makes it suitable for use in all seasons.	API GL-4 / John Deere J20C
 WOMAC HYDROL AURAE VEG 32	Vegetable	Vegetable oil-based lubricant suited to lubricating hydraulic circuits. Due to its biodegradability, it's an environmentally-friendly product which avoids polluting natural settings. Recommended for all uses where oil leaks are likely to pollute groundwater or other marine environments, such as water treatment plants, boats or dredging platforms, lock hydraulics and other river constructions, etc.	ISO 15380 Catégorie HETG VDMA 24568 Catégorie HETG
 WOMAC HYDROL AURAE VEG 46	Vegetable	Vegetable oil-based lubricant suited to lubricating hydraulic circuits. Due to its biodegradability, it's an environmentally-friendly product which avoids polluting natural settings. Recommended for all uses where oil leaks are likely to pollute groundwater or other marine environments, such as water treatment plants, boats or dredging platforms, lock hydraulics and other river constructions, etc.	ISO 15380 Catégorie HETG VDMA 24568 Catégorie HETG
 WOMAC HYDROL AURAE HEES 32	Esters	High-quality biodegradable hydraulic fluid developed from synthetic esters. Recommended where the risks of a leak or loss of lubricant are likely to contaminate the environment. Used in the following areas: civil engineering, forestry, river navigation, road machinery, winter sport resorts, golf courses, etc.	DIN 51502 EL / ISO 15380 ISO 6743-4 Catégorie HEES
 WOMAC HYDROL AURAE HEES 46	Esters	High-quality biodegradable hydraulic fluid developed from synthetic esters. Recommended where the risks of a leak or loss of lubricant are likely to contaminate the environment. Used in the following areas: civil engineering, forestry, river navigation, road machinery, winter sport resorts, golf courses, etc.	DIN 51502 EL / ISO 15380 ISO 6743-4 Catégorie HEES
 WOMAC HYDROL AURAE HEES 68	Esters	High-quality biodegradable hydraulic fluid developed from synthetic esters. Recommended where the risks of a leak or loss of lubricant are likely to contaminate the environment. Used in the following areas: civil engineering, forestry, river navigation, road machinery, winter sport resorts, golf courses, etc.	DIN 51502 EL / ISO 15380 ISO 6743-4 Catégorie HEES
 WOMAC HYDROL AURAE SAT 32	Esters	High quality hydraulic fluid developed from saturated type esters. Due to its content of raw materials derived from renewable bases and its biodegradability, is a product that contributes to the protection and preservation of our environment. Recommended for all applications where oil leaks are likely to pollute the water table or other aqueous environments, and is therefore suitable for use in all fixed and embedded equipment, in the fields of sand quarries, forestry exploitation, river navigation, public works, winter sports resorts, etc.	ISO 15380 / ISO 6743-4 HEES
 WOMAC HYDROL AURAE SAT 46 ECOLABEL	Esters	High quality hydraulic fluid developed from saturated type esters. Due to its content of raw materials derived from renewable bases and its biodegradability, is a product that contributes to the protection and preservation of our environment. Recommended for all applications where oil leaks are likely to pollute the water table or other aqueous environments, and is therefore suitable for use in all fixed and embedded equipment, in the fields of sand quarries, forestry exploitation, river navigation, public works, winter sports resorts, etc.	ISO 15380 VDMA 24568 Catégorie HEES
 WOMAC HYDROL AURAE SAT 68	Esters	High quality hydraulic fluid developed from saturated type esters. Due to its content of raw materials derived from renewable bases and its biodegradability, is a product that contributes to the protection and preservation of our environment. Recommended for all applications where oil leaks are likely to pollute the water table or other aqueous environments, and is therefore suitable for use in all fixed and embedded equipment, in the fields of sand quarries, forestry exploitation, river navigation, public works, winter sports resorts, etc.	ISO 15380 ISO 6743-4 HEES

Current packaging :



 Environmentally-friendly product and/or biodegradable product.