



LUBRICANTS DEDICATED TO AGRICULTURE



AGRICULTURE

A range of high technology lubricants





Total presents its lubricants and greases

The range is :

- ✓ **COMPREHENSIVE;** tailored to meet the technological requirements of the latest farming equipments and also those of earlier generation.
- ✓ **PERFORMING;** meets all international standards and approved by leading farming equipment manufacturers.
- ✓ **INNOVATIVE AND UNIQUE;** Total Lubrificants is the only one offering you different and innovative products, designed from years of research. Our Fuel Economy lubricants and Biolubricants are concrete and cost-effective response to the demands of an activity, constantly in need of sophisticated equipments, which complies with environmental regulations.

Total provides solutions that permits you to maximize performance and efficiency.



Flash and discover our Field Test Video.



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1 TOTAL FE engine oil

- or TRACTAGRI HDZ FE 10W-30
- or TRACTAGRI HDX SYN FE 10W-30
- or TRACTAGRI HDX FE 15W-30
- or BIOTRAFFIC 1000 FE 10W-30



1 TOTAL FE transmission oil

DYNATRANS VX FE

Up to

6%

of Fuel Economy*

Full-scale tests at the Burgundy 'CUMA', the cooperative for the use of agricultural equipment (France)



Fernand Prudent,
President of the Genlis CUMA,
carried out tests on his
165 hp tractor himself:

“We could feel the increase in power with very positive results while driving, particularly when tackling inclines - which we did in the same conditions every time. The fuel savings are significant for the CUMA - for 4 tractors, we save around 3000 L per year.”



Franck Lorient,
Machinery Adviser
at the Burgundy Regional
Federation of CUMAs:

“It's true that if you compare a traditional lubricant to a Fuel Economy lubricant, you'll see on the power test bench that a Fuel Economy lubricant can provide an extra 8 hp on power take-off, at maximum power. The tractor is freer, meets less resistance and so goes a little faster for the same amount of work or the same level of fuel consumption.”

* Average fuel savings generated during tests carried out at the Burgundy CUMA on a 165 hp tractor, compared with the fuel consumption measured when using standard 15W-40 lubricants for both the engine and the transmission system. Fuel savings generated: 5.1% on roads, 5.8% in fields and 7.1% on a power test bench.



Fuel Economy lubricants for Engines



TRACTAGRI HDZ FE 10W-30



SPECIFICATIONS
Classifications
ACEA: E9/E7 (E5)
API: CJ-4/CI-4 plus/CI-4/SM
Manufacturer Approval
DAIMLER: MB-Approval 228.31
DEUTZ: DQC III-10 LA
CUMMINS: CES 20081
Conform to
CATERPILLAR: ECF-3/ECF-2/ECF-1a
JOHN DEERE

- > High thermal stability ensuring a very good lubrication of hot engine pieces, especially during severe and long working periods.
- > Its "Low SAPS" formulation is adapted to all exhaust gaz post-treatment systems and particularly improves the durability of the Diesel Particulate Filters.
- > Specific formulation which enables fuel savings. Suitable in all engine brands and types of old or recent technology

SPECIFICATIONS
Classifications
ACEA: E4/E5/E7
API: API CF / SL
Manufacturer Approval
DAIMLER: MB-Approval 228.5
DEUTZ: DQC III-10

TRACTAGRI HDX SYN FE 10W-30

- > Withstands very long working periods under high temperature and high load without compromising material durability
- > Provides for a notable reduction of engine's diesel fuel consumption
- > Combines a very high technical performance level with reel fuel economy

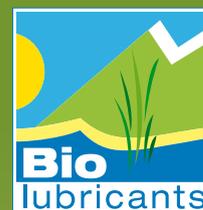
SPECIFICATIONS
Classifications
ACEA: E7/E5
API: CI-4/SL
Manufacturer Approval
DAIMLER: MB-Approval 228.3
CUMMINS: CES 20078 (20077)
DEUTZ: DQC III-10
Conform to
CATERPILLAR: ECF-2

TRACTAGRI HDX FE 15W-30

- > Exceptional anti-wear and anti-corrosion properties
- > Equipment durability in case of important work period under high temperature and load

BIODEGRADABLE

BIOTRAFFIC 1000 FE 10W-30*



SPECIFICATIONS
ACEA E7 / E5 / B4 / B3 / A3
• API CI-4 / CH-4 / SL
• GLOBAL DHD-1 / JASO DH-1
Meets the requirements for the European Community "Bio-lubricant" definition.
Meets the main manufacturers' specifications

Very high performance, biodegradable, synthetic, fuel-economy lubricant derived from renewable resources for all types of engines.

- > Allows the longest drain intervals specified by the OEMs for Off-Road sectors
- > Provides economy by reducing the engine fuel consumption (up to 4 %) which also reduces the exhaust gaz pollution
- > Very few level of oil evaporation reducing the oil consumption



*Please see the TOTAL Biolubricants brochure for further information.



Fuel Economy lubricants for UTTO Transmissions

(Universal Tractor Transmission Oil)



DYNATRANS VX FE

SPECIFICATIONS
Classifications
API GL-4
Suitable when the following specifications are recommended
VOLVO CE WB 102
JOHN DEERE JDM J 20D
KUBOTA: S UDT
MASSEY FERGUSON: CMS M 1143/1145

High performance, synthesis technology lubricant for axles equipped with wet disc brakes system.

- > Suitable to Agricultural machinery providing a reduction of the used lubricant number.
- > Permits to reduce the friction or bath energy losses generating a fuel economy.
- > Excellent behaviour at low temperature.
- > Very good load capacity providing a reinforced gear protection and then an extended lifetime of transmission and hydraulic components.
- > Improved durability of the lubricant, due to its non-conventional base oil nature.





Lubricants for Engines

SPECIFICATIONS

Classifications

ACEA: E9 / E7 (E5)

API: CJ-4 / CI-4 plus / CI-4 / SM

Manufacturer Approval

DAIMLER: MB-Approval 228.31

CUMMINS: CES 20081

DEUTZ: DQC III-10 LA

Conform to

CATERPILLAR: ECF-3 / ECF-2 / ECF-1a

JOHN DEERE

Suitable in tractors

CASE, NEW-HOLLAND, CLAAS, VALTRA, SAME, FENDT, MASSEY-FERGUSON, Mc CORMICK...

TRACTAGRI HDZ 10W-40



Low SAPS technology. Lubricant specially developed for Agricultural machinery engines, with or without Diesel Particulates Filter.

- > Very good lubrication of hot engine pieces
- > Adapted to all exhaust gaz post-treatment systems
- > Suitable in all engine brands and types of technology

SPECIFICATIONS

Classifications

ACEA: E7/E5, A3/B4/B3

API: CI-4/CH-4/SL

Manufacturer Approval

DAIMLER: MB-Approval 228.3

CUMMINS: CES 20078 (20077/20076)

DEUTZ: DQC III-10

TRACTAGRI HDX SYN 10W-40

Semi-synthetic lubricant with very high performance for agricultural machine motors operating in the most extreme conditions, in all seasons.

- > Excellent stability of the viscosity in service
- > Outstanding protection against wear
- > High levels of detergency and dispersivity
- > Easier start-up at ultra low temperatures
- > Perfectly suited for the lubrication of low emission engines (European phase I, II or IIIa)

SPECIFICATIONS

Classifications

ACEA: E7/E5

API: CI-4/CH-4/SJ

Manufacturer Approval

DAIMLER: MB-Approval 228.3

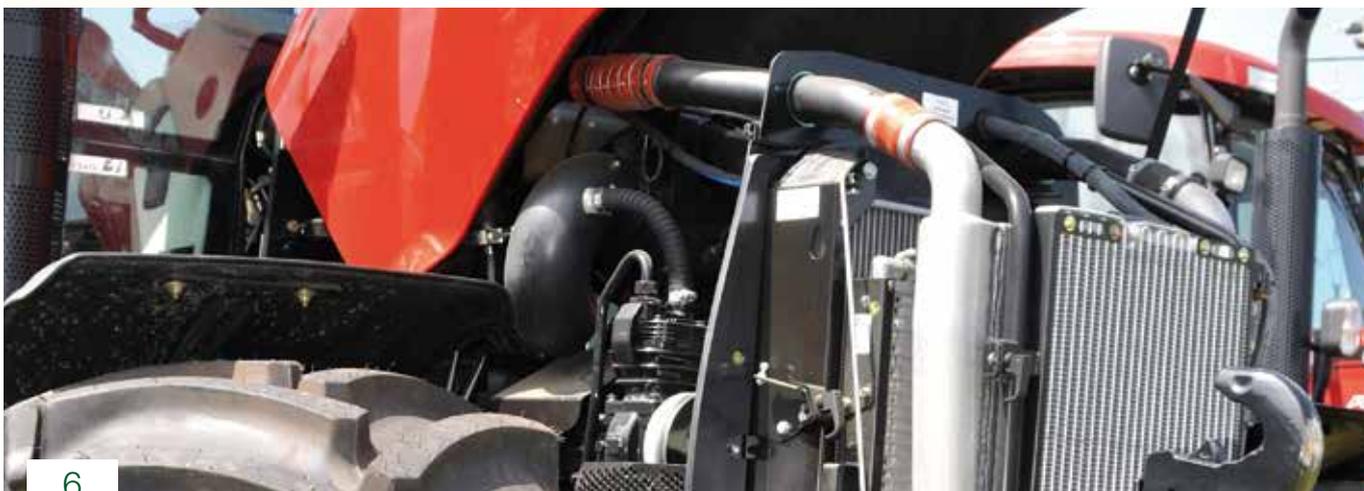
CUMMINS: CES 20078 (20077/20076)

DEUTZ: DQC III-10

TRACTAGRI HDX 15W-40

Top performance lubricant for the motors of agricultural equipment operating in all conditions and in all seasons.

- > Great stability of the viscosity in service
- > Excellent oxidation resistance
- > Perfectly suited for the lubrication of low emission engines (European phase I, II or IIIa)





Lubricants for UTTO Transmissions

(Universal Tractor Transmission Oil)

SPECIFICATIONS

Classifications

API: GL-4

Manufacturer Approval

MASSEY FERGUSSON: CMS M 1145/1143

VOLVO CE: WB 101

ZF: TE-ML 03E/05F/06P/17E/21F

DYNATRANS MPV

Lubricant for transmissions fitted with oil-immersed disk brakes and hydraulic systems on agricultural tractors.

- > Special friction coefficient for brakes and immersed clutch plates
- > Very good stability in service
- > Great shear resistance

SPECIFICATIONS

Classifications

API: GL-4

Manufacturer Approval

ZF: TE-ML 06F

MASSEY FERGUSSON: CMS M 1145

DYNATRANS CVT

Special lubricant for continuously variable transmissions (CVT) used in agricultural tractors.

- > Smooth and progressive operation of the transmission
- > The ultimate anti-wear performance
- > Wide scope of applications

SPECIFICATIONS

Classifications

API: GL-4

DYNATRANS FR

Lubricant for transmissions fitted with oil-immersed disk brakes and hydraulic systems on agricultural tractors.

- > Special friction characteristics for brakes and immersed clutch plates
- > Added gear protection
- > High anti-foam power

BIODEGRADABLE

BIOTRANS FX*

Very high quality biodegradable lubricant for transmissions equipped with wet disk brakes in agricultural equipment.

- > Very high viscosity index enabling use at a wide range of temperatures
- > High shear and oxidation resistance
- > Biodegradable and good compatibility with the elastomers currently used in hydraulic circuits



SPECIFICATIONS

Classifications

API: GL-4

AFNOR: HV 68 multigrade

ISO 15380: HEES

Manufacturer Approval

MASSEY FERGUSSON: CMS M 1145/1143

ZF: TE ML 06P



Lubricants for Multifunction STOU

(Super Tractor Oil Universal)

SPECIFICATIONS

Classifications

ACEA: E3

Manufacturer Approval

MASSEY FERGUSSON: CMS M 1145/1144

ZF: TE-ML 06B/07B

MULTAGRI PRO-TEC 10W-40

Last generation multi-purpose lubricant of a non-conventional ultra high performance bases for the lubrication of the mechanical components of tractors, agricultural machinery and related equipment in all seasons.

- > Outstanding wear resistance
- > High level of detergency and dispersivity
- > Optimised maintenance programmes

SPECIFICATIONS

Classifications

ACEA: E2

Manufacturer Approval

MASSEY FERGUSSON: CMS M 1145/1144

ZF: TE-ML 06B/07B

MULTAGRI MS 15W-40

Multi-purpose lubricant intended for the lubrication of the various components of agricultural tractors and harvesters, in all seasons.

- > Good anti-wear power
- > Extensive use, in complete safety
- > High Extreme Pressure property



Lubricants for Transmissions

SPECIFICATIONS

Classifications

API: GL-5-LS

MIL.L.: 2105D

Manufacturer Approval

ZF: TE-ML 05C/12C/21C

DYNATRANS DA 80W-90

Lubricant for axles equipped with an auto-blocking limited slip differential system.

- > Guarantees high cleanliness of the limited slip disks installed in the axles
- > Prevents noise and vibration under intensive use
- > With its added "Extreme Pressure", it ensures the maximum protection of gears and friction components
- > Excellent compatibility with disk friction materials
- > Excellent performance with respect to seals

SPECIFICATIONS TRANSMISSION AXLE 7 80W-90

Classifications

API GL-5

ZF TE-ML 12E/17B/19B

SPECIFICATIONS TRANSMISSION AXLE 7 85W-140

Classifications

API GL-5

ZF TE-ML 05A/12E/16D/17B/21A

TRANSMISSION AXLE 7 80W-90 / 85W-140

Mineral gear oil.

- > Very high extreme-pressure properties for an optimal protection of heavily loaded gears against scuffing
- > Very good level of antiwear, anticorrosion and antirust protection
- > Very good resistance against thermal ageing and excellent shear stability
- > Formulated with pour point depressant additives allowing good low temperature fluidity when starting in winter

SPECIFICATIONS

Classifications

API GL-4

MAN 341 type E-1 / Z-2

ZF: TE-ML 02B, 16A, 17A, 19A

TRANSMISSION GEAR 7 80W-90

Gear oil.

- > High viscosity index, allowing enough fluidity at low temperature to keep the functionality of the gearbox in cold start conditions, while maintaining enough oil film thickness for optimal bearing protection
- > High Extreme-Pressure and antiwear properties for an enhanced durability of gears and synchroneshes
- > Good antiwear, antioxidant, antifoam, anticorrosive and antirust properties

SPECIFICATIONS

Classifications

DEXRON III G

FLUIDE G3

Lubricant for automatic transmissions or systems requiring the use of an ATF fluid.

- > Special friction properties to enable a controlled slip on friction parts: clutches brought into action without brutality, without excessive slip or brake chatter
- > Neutrality with respect to the elastomers and non-ferrous metals (copper, etc.)
- > Accuracy and flexibility of automatic sequences for manoeuvres at a very low speed



Lubricants for Transmissions

BIODEGRADABLE

BIOTRANS LS FE 75W-90*

SPECIFICATIONS

- Meets the European Community definition of "Biolubricant"
- Conform to the International Classifications: API GL-5 and MIL.L 2105D

Meets the main manufacturers' specifications

Very high performance synthetic biodegradable lubricant, coming from renewable raw material, dedicated to final reductions and disc limited slip differential axles.

- > Smooth clutching without chocks nor excessive slippage of self-locking friction discs
- > Thanks to its Extreme-Pressure additives, provides a maximum protection of very loaded gears working with shocks
- > Good compatibility with transmission organ seals
- > Specially recommended in case of possible contamination of cultivated land, water, forests and sensitive environments which must be preserved
- > Its rheological and friction characteristics generate a reduction of the mechanical energy losses in the lubricated organ and then a fuel consumption reduction...



*Please see the TOTAL Biolubricants brochure for further information.



Lubricants for Hydraulics

SPECIFICATIONS

Classifications

ISO: VG 46

ISO: 6743/4-HV

AFNOR: NF 48-603 HV

DIN 51524 P3 HVLP

HYDROFLO CT

Lubricant specially designed for hydrostatic and hydraulic systems exposed to great variations in temperature.

- > Very high viscosity index enabling very regular operation and easy start-up at all temperatures
- > Very high shear resistance
- > Perfect neutrality relative to gaskets

SPECIFICATIONS

Classifications

ISO: VG 32/46/68

AFNOR: NF E 48-603 HV

DIN 51524 P3 HVLP

HYDRAGRI

High performance hydraulic oils.

- > Lubricant specially designed for hydraulic systems operating under normal temperature and pressure conditions
- > Perfect neutrality relative to seals

BIODEGRADABLE

BIOHYDRAN SE*

High thermal stability biodegradable hydraulic fluid.

SPECIFICATIONS

ISO: VG 32/46/68 15380 HEES
Registration number FR/27/002
ECOLABEL CERTIFICATION.
Contributes to reducing water contamination and resource consumption.
Reduces carbon dioxide emissions.

- > BIOHYDRAN SE has a natural high and stable viscosity index. No viscosity loss due to shear is observed. This stable viscosity level ensures an optimum hydraulic efficiency during all the fluid life
- > The good lubricating properties and corrosion protection will extend the component life of hydraulic systems
- > The excellent oxidation stability of BIOHYDRAN SE offers extended drain intervals compared to classical mineral hydraulic fluids
- > BIOHYDRAN SE is miscible with classical HM and HV mineral hydraulic fluids



BIODEGRADABLE

BIOHYDRAN TMP*

Biodegradable Hydraulic Fluid complying with the European Ecolabel criteria.

SPECIFICATIONS

ISO: VG 32/46/68 15380 HEES
Registration number FR / 27 / 02
ECOLABEL CERTIFICATION.
Reduced harm for water and soil. Reduced carbon dioxide emissions.

- > Produced with renewable raw materials, BIOHYDRAN TMP contributes to CO2-emission reduction
- > High natural viscosity index gives BIOHYDRAN TMP a wide temperature operating window (-20°C to 80°C)
- > The good lubricating properties, as well as the very good wear and corrosion protection, will extend the life of the hydraulic system's moving components





Lubricants for Home farming

SPECIFICATIONS

Classifications

API: TC
 JASO: FD
 ISO: L-EGD (detergency level)

PROSYLVA 2T SYN

Synthetic oil-based lubricant developed for high speed 2-stroke engines used in mechanized farming.

- > Specially tailored for the greasing of 2-stroke engines operating under severe conditions and at very high temperatures
- > Maximum reduction of smoke emissions
- > Definitive elimination of any clogging

SPECIFICATIONS

Classifications

API: TC

PROSYLVA 2T Z

Lubricant for the 2-stroke engines used in mechanized farming.

- > Viscosity tailored to use in a mixture or in separate greasing
- > Pre-diluted to ensure a stable mixture
- > Very good corrosion and wear resistance

SPECIFICATIONS

Classifications

API: SL
 ACEA: A3

PROSYLVA 4T SYN 10W-40

Synthetic based lubricant for gasoline 4-stroke engines used in severe applications of mechanized farming.

- > Good thermal stability
- > Very good wear and corrosion resistance
- > Maintains multigrade properties for all durations

SPECIFICATIONS

Classifications

API: SJ/CG-4
 ACEA: A2/B2

PROSYLVA 4T 15W-40

Lubricant for gasoline or diesel 4-stroke engines used in professional Home farming equipment.

- > Excellent stability of the viscosity in service
- > Ultra high level of detergency and dispersivity
- > Very good wear and corrosion resistance



Coolants

SPECIFICATIONS

Classifications

AFNOR NFR 15-601

ASTM D 3306
 ASTM D4656
 ASTM D4985
 BS 6580

COOLELF AUTO SUPRA -37°C

“Ultra long duration” cooling liquid with a monoethylene glycol base of great purity and organic corrosion inhibitors, from discoveries made in the realm of the protection of materials in a corrosive atmosphere.



Lubricants for Chainsaw

MTC 100-150-220

Lubricants for chainsaw chains suitable for the lost oil lubrication of fast-moving machinery: wood chainsaw chains, conveyor belts, etc.

- > Reduced splattering
- > Reduced oil consumption
- > Significantly reduced wear



BIODEGRADABLE CHAINBIO 100*

Biodegradable lubricants for chainsaw. Recommended for the lost oil lubrication of fast-moving machinery: wood chainsaw chains, pruning saws, etc.

- > Reduced splattering
- > Reduced oil consumption
- > Significantly reduced wear
- > Biodegradable



Lubricant for Milking machines

SPECIFICATIONS

Classifications

ISO: VG 68

AGRITRAITE

Lubricant for the vacuum pumps of milking machines (vane pumps, screw pumps, ROOTS type rotary piston pumps).

- > Shear-free
- > Very good anti-wear properties
- > Perfect neutrality with relative to seals



Greases

SPECIFICATIONS

Classifications

ISO 6743-9: L-XCFIB 1/2

DIN 51 502: KP1/2R-30

CERAN XM 220

Extreme-pressure water resistant high temperature “NEW GENERATION” calcium sulfonate complex grease.

- > NEW GENERATION calcium sulfonate complex soap with enhanced properties in terms of water resistance, load capacity, thermal resistance
- > Suitable for shock loaded applications in industry even in severe demanding environment (water, dust, high temperature)
- > The NEW GENERATION of calcium sulfonate complex soap allows to keep outstanding CERAN XM 220 performances even in case of high speed applications where normally polyurea or lithium complex greases are requested.

SPECIFICATIONS

Classifications

ISO 6743-9: L-XBEHB 2

DIN 51 502: KP2P-20

MULTIS COMPLEX EP 2

Multi purpose extreme pressure high temperature lithium complex grease.

- > Long lasting lubricant film in service to help reduce maintenance costs and down time
- > Can be mixed with most conventional soap-based greases
- > Multi purpose medium duty EP grease General Lubrication
- > Designed particularly where the operation temperature is high and the use of conventional lithium greases is limited.

SPECIFICATIONS MULTIS EP 00

Classifications

ISO 6743-9: L-XCBEB00

DIN 51502: GP00G-30

MULTIS EP 00 - EP 2

Multi purpose extreme pressure lithium/calcium grease.

- > Long lasting lubricant film. Extended life cycle of the lubricated parts
- > Can be mixed with most conventional soap-based greases
- > Remarkable pumpability.

SPECIFICATIONS MULTIS EP 2

Classifications

ISO 6743-9: L-XBCEB 2

DIN 51 502: KP2K-25

BIODEGRADABLE

BIOMULTIS EP 2*

High-performance extreme pressure biodegradable lithium grease.

SPECIFICATIONS

Classifications

ISO 6743-9: L-XCEEB 2

DIN 51502: KP2K-30

- > Good mechanical and thermal stability
- > Wide range of applications to rationalise inventory and facilitate maintenance
- > Long-lasting lubricant film



*Please see the TOTAL Biolubricants brochure for further information.



TOTAL ANAC

TOTAL ANAC is a management tool for agricultural equipment

The TOTAL ANAC service consists in making a diagnosis of mechanical components (engine, transmissions, hydraulic) from oil samples taken in service.

Analyses are carried out via an expert system that assesses the proper operation of each component with respect to a reference of the same family. This system takes stock of the different intervals between oil change as well as the lubricant's makeup level.

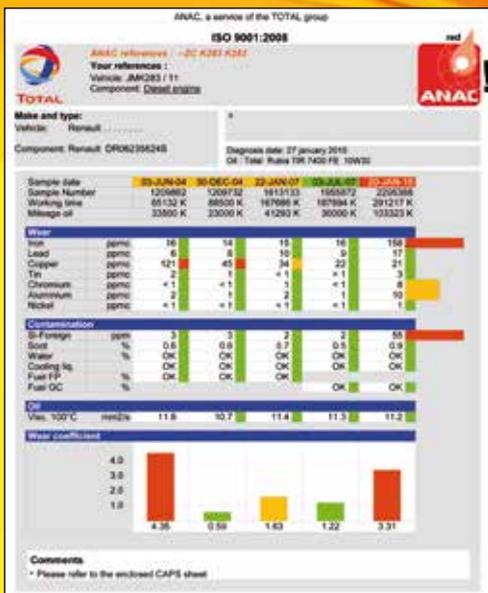
The results of these analyses are then presented along with the history of previous assessments, thus offering an ability to track your equipment.

YOUR ADVANTAGES:

- > Decrease in immobilized machinery and mechanical damage
- > Optimised maintenance intervals
- > Longer life cycle and reliability for your equipment
- > Increased productivity



DIAGNOSIS REPORT



TOTAL ANAC MAKES A DIFFERENCE!

- Database on more than **4 million performed analyses**, over 400.000 parts in follow up.
- Database on feedback of successful interventions after ANAC diagnosis.
- Specific and personalised comments.
- User friendly website for management of diagnosis data.
- Reports available by post, e-mail, fax or Internet.
- More than **40 years of experience**.
- Reports available in 19 languages.

TOTAL ANAC PRO

The in-depth diagnostics system for driveline components



TOTAL ANAC PRO is an in-depth, personalised diagnosis system for engines, gearboxes and other driveline components.

TOTAL ANAC PRO is recommended for:

- Detailed follow-up of component wear and lubricant behaviour.
- Spot analysis and diagnosis in special cases (breakdowns, claims, expertise...).
- Analysis of new lubricants.

Procedure for switching your equipment over to BIO

- ▶ Reduced immobilisation of your equipments
- ▶ Controlled cost of switching over to BIO



DIAGNOSIS AND COMMENTS

- The diagnosis and comments are established by an ANAC technician, specialised in engine and lubricant technology, aided by the ANAC database with reference data of all current part types, calculated on over 3 million performed analyses. Also the database of feedback on

successful corrective actions by the users is at the disposal of the ANAC PRO technician.

- The ANAC PRO technician takes into account the specific knowledge on the usage conditions and possible remarks by the user.
- Personalised answers on questions by the users.

www.anac-diagnosis.com A website with personalised and secure access to the results of analyses of your oils.

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TOTAL
COMMITTED TO BETTER ENERGY