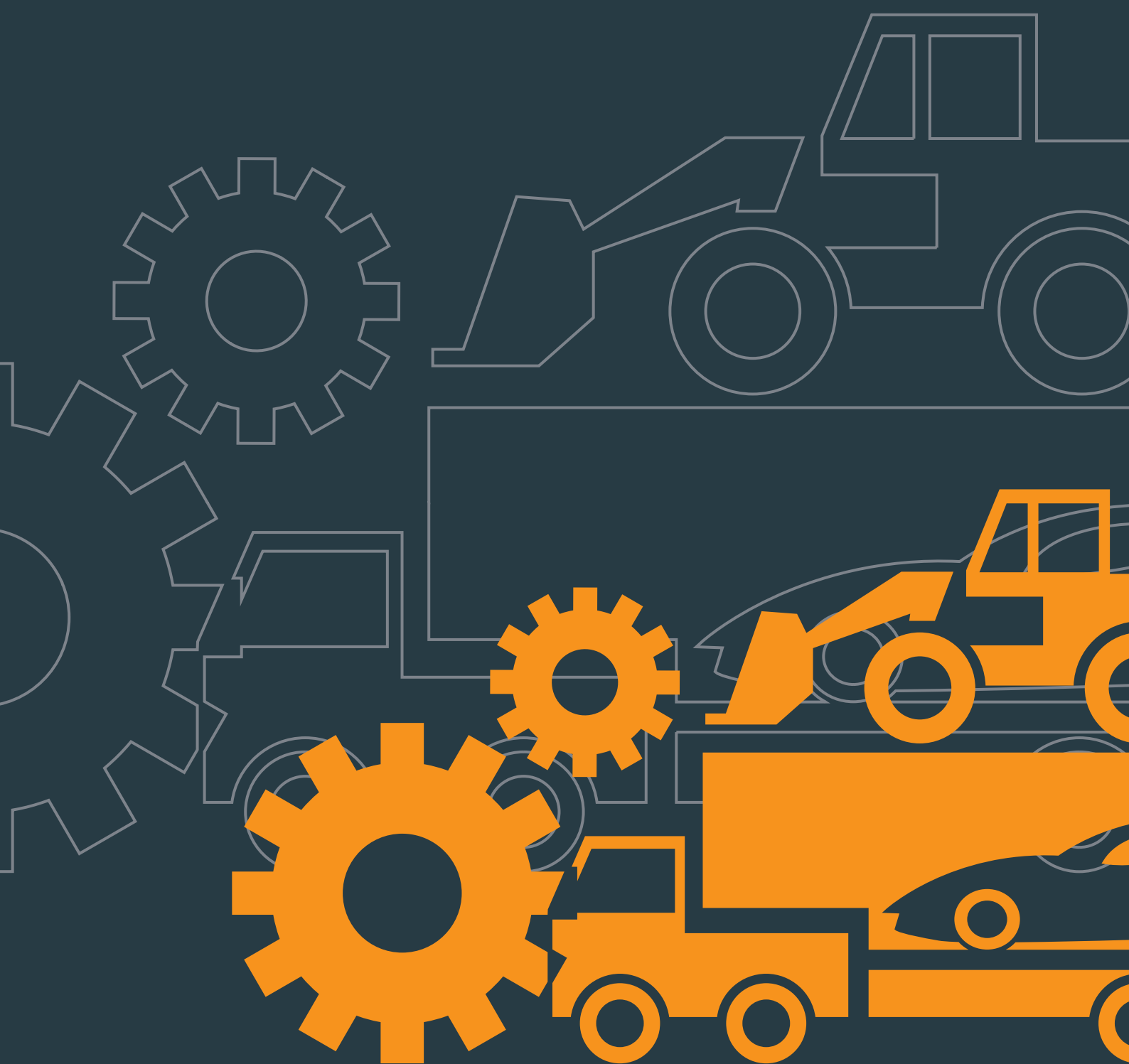


DUGLAS **OIL**

italian lubricants by ramoil





◆ Gli Oli Lubrificanti della Ra.M.Oil sono distribuiti con il Marchio Douglas Oil

La linea di lubrificanti Douglas Oil è formulata ai massimi livelli prestazionali per assolvere alle sempre crescenti esigenze tecnologiche di un mercato teso alla riduzione dei consumi ed al rispetto delle nuove normative antinquinamento. Il raggiungimento di tali obiettivi è stato possibile con l'utilizzo di basi specifiche per ogni tipologia di applicazione e di additivi di altissima gamma. Ra.M.Oil assicura, attraverso l'uso di moderne tecnologie di miscelazione e con l'applicazione di un rigoroso controllo sulla qualità, il rispetto dei massimi livelli prestazionali previsti dalle classificazioni internazionali sia **A.P.I.** (autorizzata con licenza No: 3909) che **A.C.E.A.** (Associazione dei Costruttori Europei di Automobili) nonché il rispetto degli standard definiti da tutti i Costruttori Mondiali (**OEM**). Il continuo aggiornamento dei processi di produzione associato ad una rigida ed attenta corrispondenza agli standard qualitativi internazionali, danno la certezza di fornire a tutta la Clientela dei prodotti sempre più sofisticati e tecnologicamente all'avanguardia. La Ra.M.Oil inoltre fornisce supporto per le aziende che desiderano **formulazioni su misura** o prodotti con la propria etichetta in supporti di elevata qualità. La Ra.M.Oil è nella lista **ATIEL**, Associazione Tecnica dei Produttori Europei di Lubrificanti, in qualità di produttore di oli lubrificanti riconosciuto dall'ACEA.

◆ Douglas Oil lubricants are Ra.M.Oil house brand

Douglas Oil lubricants are formulated at the highest performance levels to meet the ever-increasing technological needs of a market aimed at reducing consumption and complying with the new anti-pollution regulations. The achievement of these objectives was possible with the use of specific bases for each type of application and top-of-the-range additives. Ra.M.Oil ensure, using modern mixing technologies and the application of strict quality control, compliance with the maximum performance levels required by international classifications such as **A.P.I.** (official license No: 3909) and **A.C.E.A.** (Association of European Car Manufacturers), as well as the standards defined by all World Manufacturers (**OEM**). The continuous updating of production processes, associated with a strict and careful correspondence to international quality standards, make sure of providing all customers with increasingly sophisticated and technologically advanced products. Ra.M.Oil also provides support for companies that want **tailor-made formulations** or products with their own label in high quality packaging. Ra.M.Oil is on the **ATIEL** list, the Technical Association of European Manufacturers of Lubricants, as a manufacturer of lubricating oils recognized by ACEA.

Certificazioni

La Ra.M.Oil S.p.A. esprime e sancisce il proprio impegno al rispetto e alla salvaguardia dei principi in cui fortemente crede, **Qualità, Tecnologia, Ambiente e Gestione rischi** adottando un **Sistema di Gestione Integrato** conforme alle norme ISO 9001:2015, ISO 14001:2015 e ISO 45001:2018

- al fine di garantire la conformità del prodotto finito alle specifiche di vendita per soddisfare ogni richiesta ed esigenza dei Clienti;
- per promuovere l'implementazione di tecnologie innovative per la diminuzione dell'impatto ambientale attraverso politiche orientate alla riduzione costante dei rischi e all'ottimizzazione dei processi. Il sistema avanzato di gestione ambientale della Ra.M.Oil ha permesso di conseguire nel 2018 la registrazione europea **EMAS** (Eco-Management and Audit Scheme) secondo i requisiti del Regolamento Europeo 1221/2009.
- al fine di sensibilizzare e responsabilizzare il personale per ottenere una crescita della cultura della sicurezza, attraverso la minimizzazione dei rischi e la formazione continua in tema di salute e sicurezza dei lavoratori.

Certifications

Ra.M.Oil S.p.A. commitment to the principles in which we strongly believe, **Quality, Technology, Environment and Risk Management** by adopting an **Integrated Management System** compliant with ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 standards.

- in order to guarantee the conformity of finished products to technical specifications, to satisfy needs and demands of the Customers.
- to promote the implementation of innovative technologies with the scope of reducing environmental impact through policies aimed at constantly reducing risks and achieve process optimization. Ra.M.Oil advanced environmental management system allowed us to achieve European **EMAS** (Eco-Management and Audit Scheme) registration in 2018 according to the requirements of European Regulation 1221/2009.
- in order to raise awareness and empower staff to achieve a growth in safety culture, through risk minimization and continuous training on workers' health and safety.



Azienda con Sistema di Gestione Integrato (Qualità, Ambiente, Salute e Sicurezza) certificato secondo ISO 9001, ISO 14001, ISO 45001

Certified Integrated Management System (Quality, Environment, Health and Safety) ISO 9001, ISO 14001, ISO 45001

Cert. IT 320215 - IT 320296 - IT 320490





GTe LINE

HYBRID TECHNOLOGY AND ENVIRONMENTAL PROTECTION
100% SYNTHETIC FORMULATION

I lubrificanti della linea GTe sono realizzati per rispondere alle richieste di un mercato sempre più orientato verso la tutela dell'ambiente, in grado di soddisfare le severe esigenze degli OEM Europei ed Asiatici in termini di prestazioni ed emissioni. Formulati con basi 100% sintetiche ed additivi di ultimissima generazione, sono concepiti per fornire eccezionali prestazioni nei modernissimi motori ibridi (HEV e PHEV) sovralimentati e "downsized".

I lubrificanti GTe sono inoltre fortemente orientati verso le filosofie di Fuel Economy e Long Life (nuove specifiche VW), che guardano grazie al basso HTHS ed al limitato contenuto di ceneri (Mid SAPS), garantendo la compatibilità con tutti i più recenti sistemi di post-trattamento e conseguente rispetto della normativa EURO VI. Infine, i GTe garantiscono al motore un'elevata protezione LSPI (Low Speed Pre-Ignition) ed un'eccellente compatibilità con i bio-carburanti.

Douglas GTe LINE lubricants are made to meet the demands of an environmentally oriented market, able to meet the restrictions of European and Asian OEMs in terms of performance and emissions. Formulated with 100% synthetic bases and latest generation of additives, they are designed to provide exceptional performance in supercharged and downsized hybrid engines (HEV and PHEV).

GTe lubricants are also strongly oriented towards the Fuel Economy and Long Life (new VW specifications) philosophies, which are obtained thanks to the low HTHS and the limited ash content (Mid SAPS), ensuring compatibility with all the latest after-treatment systems in compliance with EURO VI regulations. Finally, the GTe guarantee engines a high LSPI protection (Low Speed Pre-Ignition) and an excellent compatibility with biofuels.



GTv LINE

INNOVATIVE LOW SAPS TECHNOLOGY
100% SYNTHETIC FORMULATION

I lubrificanti della linea GTv, realizzati su base totalmente sintetica con un'innovativa tecnologia di additivazione a Basso contenuto di Ceneri (LOW SAPS), sono appositamente studiati per la lubrificazione delle auto equipaggiate con i più moderni motori benzina e turbo diesel ad iniezione diretta che rispettano le normative antinquinamento EURO V ed EURO VI. Garantiscono una totale compatibilità con tutti i sistemi di abbattimento delle emissioni allo scarico (DPF, TWC, FAP) e conferiscono spiccate proprietà di Fuel Economy (FE) per una costante riduzione dei consumi di carburante. I lubrificanti della linea GTv superano le stringenti richieste delle ultimissime sequenze API ed ACEA C.

Douglas GTv lubricants range is made on totally synthetic bases with an innovative Low Ash content (LOW SAPS) additive technology. They are specially designed for the lubrication of cars equipped with the most modern gasoline and turbo diesel engines with direct injection that comply with EURO V and EURO VI anti-pollution regulations. GTv lubricants guarantee total compatibility with all exhaust emission abatement systems (DPF, TWC, FAP) and confer strong Fuel Economy (FE) properties for a constant reduction in fuel consumption. They exceed the strict demands of the very latest API and ACEA C sequences.



GTs LINE

SYNTHETIC TECHNOLOGY
SYNTHETIC FORMULATION

I lubrificanti della linea GTs, realizzati su base sintetica con un'avanzata tecnologia di additivazione, sono stati sviluppati per soddisfare le specifiche tecnologie dei diversi Costruttori Mondiali (Mercedes, Audi-Volkswagen, BMW, Ford, GM, Fiat, Renault, PSA, Porsche, Ferrari, Toyota, Honda, Hyundai) che realizzano motori sempre più complessi e con intervalli di cambio sempre più prolungati. Il loro utilizzo è indicato per le auto ed i veicoli commerciali leggeri equipaggiati con motori a benzina, diesel e combustibili alternativi.

Douglas GTs lubricants range are made on synthetic bases with an advanced additive technology. They have been developed to meet the main World Engine Manufacturers specs (Mercedes, Audi-Volkswagen, BMW, Ford, GM, Fiat, Renault, PSA, Porsche, Ferrari, Toyota, Honda, Hyundai), which produce increasingly complex engines with ever longer change intervals. Their use is indicated for cars and light commercial vehicles equipped with petrol, diesel and alternative fuels engines.



GT LINE

ADVANCED TECHNOLOGY
MINERAL FORMULATION

I lubrificanti della linea GT, progettati con l'utilizzo di basi accuratamente selezionate ed additivi di moderna concezione, sono stati realizzati per garantire ottime performance a veicoli non più nuovi e rispondere alle esigenze di veicoli commerciali leggeri con motori contraddistinti da elevate percorrenze operanti in condizioni di esercizio non gravose.

Douglas GT lubricants range are designed with the use of carefully selected bases and additives of modern conception. They have been created to guarantee excellent performance for both old vehicles and light commercial vehicles, characterized by high mileage engines operating in non-heavy operating conditions.

OLI MOTORE TRAZIONE LEGGERA / PASSENGER CAR ENGINE OILS



VLDA11 **GTe SKY OW-20**
100% SYNTHETIC - Blue Oil
API SP, SN PLUS; ACEA C5; VW 508.00/509.00; VW TL 52.57; PORSCHE C20; MB 229.71; STJLR 51.5122; 03.5006; GM dexosD

VLDA12 **GTe SUPER FE 5W-20**
100% SYNTHETIC - Fuel Economy
ACEA C6, C5; API SP, SN, SN-RC; ILSAC GF-6a, GF-5; GM dexos1 Gen2; FORD WSS-M2C960-A1, WSS-M2C948-A, WSS-M2C948-B; STJLR 03.5004

VLDA13 **GTe HYBRID-TECH OW-20**
100% SYNTHETIC for Hybrid Technology
API SP, SP-RC, SN PLUS, SN-RC; ILSAC GF-6a, GF-5; ACEA C6, C5; MB 229.71; GM dexos1 Gen2; FORD WSS-M2C947-A/B1, WSS-M2C962-A1; RENAULT RN17FE; VOLVO VCC RSD-2AE; STJLR 51.5122; BMW LL-17 FE+; OPEL/VAUXHALL OVD401547; FIAT 9.55535-SX, GSX, 9.55535-CRI, 9.55535-DMI; CHRYSLER MS 6395; PSA B71 2010

VLDA14 **GTe HYBRID-FLUID OW-16**
100% SYNTHETIC for Hybrid Technology
API SP, SP-RC, SN PLUS, SN-RC; ILSAC GF-6B; ACEA C7; Recommended for TOYOTA, LEXUS, NISSAN, SUBARU, HONDA, SUZUKI

VLDA08 **GTv OVER OW-30**
100% SYNTHETIC - Mid SAPS
API SP, SN, CF; ACEA C2, C3; VW 504.00/507.00; MB 229.52, 229.51; Porsche C30; Opel dexos2; FORD WSS-M2C950-A; FIAT 9.55535-DS1, GS1; STJLR 03.5007; BMW LL-04; RENAULT RN0700, RN0710

VLDA15 **GTv LITE OW-30**
100% SYNTHETIC - Mid SAPS
API SP, SN; ILSAC GF-5; ACEA C2; PSA B71 2312; FORD WSS-M2C950-A; STJLR 03.5007; FIAT 9.55535-DS1, GS1; BMW LL04FE-12 FE

VLDA01 **GTv ECO 5W-30**
100% SYNTHETIC - Low SAPS
API SP, SN, CF; ACEA C4; MB 229.51, 226.51; RENAULT RN0720

VLDA02 **GTv ULTRA 5W-30 LL IV**
100% SYNTHETIC - Mid SAPS
API SP, SN, CF; ACEA C2, C3; MB 229.52, 229.51, 229.31, 226.51; BMW LL-04; VW 504.00/507.00, 506.01; FORD WSS-M2C917-A; PORSCHE C30; FIAT 9.55535-S3; FPW 9.55535/O3

VLDA06 **GTv MAX 5W-30**
100% SYNTHETIC - Mid SAPS
API SP, SN, CF; ACEA C2, C3; MB 229.52, 229.51, 229.31; MB 226.5; BMW LL-04; VW 502.00, 505.00, 505.01; FIAT 9.55535-S2, 9.55535-S3; GM dexos2; PSA B71 2297; PORSCHE C30; RENAULT RN17; FPW 9.55535/O3

VLDA05 **GTv CLEAN 5W-40**
100% SYNTHETIC - Mid SAPS
API SP, SN, CF; ACEA C3; MB 229.51, 229.31, 226.5; BMW LL-04; VW 502.00, 505.00, 505.01, 511.00; FIAT 9.55535-GH2/S2/T2; FORD WSS-M2C917-A; GM dexos2; PSA B71 2297; PORSCHE C40

VLDB01 **GTs EVO-SYNT 5W-40**
SYNTHETIC TECHNOLOGY
API SN, CF; ACEA A3/B4; MB 229.5, 229.3; VW 502.00, 505.00; BMW LL-01; RENAULT RN0700, RN0710; PORSCHE A40

VLDB03 **GTs ULTRA-SYNT 5W-30**
SYNTHETIC TECHNOLOGY
API SM, CF; ACEA A5/B5; FORD WSS M2C-913C, WSS M2C-913D; FIAT 9.55535-G1, 9.55535-N1

VLDB06 **GTs SYNT 10W-40**
SYNTHETIC BASED
API SN, CF; ACEA A3/B4; MB 229.1, 229.3; VW 505.00, 502.00; RENAULT RN0700, RN0710

VLDC01 **GT PLUS 15W-40**
ADVANCE TECHNOLOGY BASED
API SM, CF, CF-4; ACEA A3/B4; MB 229.1; VW 505.00, 502.00

VLDC03 **GT SUPREME 15W-40**
MINERAL BASED
API SL, CF

VLDC13 **GT SUPREME 20W-50**
MINERAL BASED
API SL, CF; MB 229.1; VW 501.01, 505.00



HEAVY DUTY LINE

LUBRIFICANTI PER LA TRAZIONE DIESEL PESANTE /
HEAVY DUTY DIESEL OIL

I lubrificanti della linea Trazione Pesante della gamma Douglas Oil sono realizzati attraverso l'impiego di selezionate componenti sintetiche e minerali e con l'ausilio di modernissimi sistemi di additivazione tali da far sì che il lubrificante possa garantire contemporaneamente elevatissime percorrenze (U.H.P.D.O. -S.H.P.D.O.), riduzioni delle emissioni (Norme Euro VI-V-IV), compatibilità con i dispositivi di post-trattamento (DPF-SCR), riduzione dei consumi di carburante (Fuel Economy) e resistenza all'usura.

I lubrificanti della linea Trazione Pesante della gamma Douglas Oil sono progettati per:

- Contribuire a prolungare gli intervalli di cambio dell'olio
- Contribuire a migliorare il rendimento del carburante nei camion
- Mantenere pulito il motore
- Offrire un'eccellente protezione dall'usura
- Essere conformi alle normative in tema di emissioni

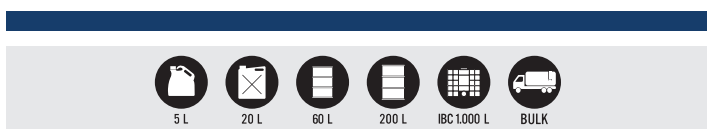
Douglas Oil ha una linea completa di prodotti per la Trazione Pesante che rispetta i requisiti prestazionali richiesti in tutto il mondo (API, ACEA) e da tutti i Costruttori (Mercedes Benz, Volvo, Scania, Iveco, MAN, Renault, DAF, CAT, MTU, Mack) potendo quindi estendere l'utilizzo dei prodotti ai parchi misti.

Douglas Heavy Duty Diesel Oil lubricants range is made using selected synthetic and mineral components and with the aid of modern additive systems to ensure that the lubricant can simultaneously guarantee very high mileage (UHPDO – SHPDO), emission reductions (Euro VI–V–IV standards), compatibility with after-treatment devices (DPF–SCR), reduction in fuel consumption (Fuel Economy) and wear reduction.

Douglas Heavy Duty Diesel Oil lubricants range is designed for:

- Help extend oil change intervals
- Helping to improve fuel efficiency in trucks
- Keeping the engine clean
- Offer excellent wear protection
- Comply with emissions regulations.

Douglas Oil has a complete line of products for Heavy Traction that meets the performance demands required all over the world (API, ACEA) and by all Manufacturers (Mercedes Benz, Volvo, Scania, Iveco, MAN, Renault, DAF, CAT, MTU, Mack), thus being able to extend the use of the products to mixed vehicle fleet.



VLDE01

ULTRA HC FE LS 5W-30 UHPDO 100% SYNTHETIC - EURO VI-V-IV e DPF

ACEA E8, E11, E6, E9, E7; API CK-4, CJ-4, CI-4 PLUS; MB 228.51, 228.3; VOLVO VDS 4.5; SCANIA LDF-4; RENAULT RLD 3; MAN 3677, 3477; MTU 3; CUMMINS CES 20081, 20086; MACK EOS4.5; JASO DH-2; CAT ECF-3

VLDE02

ULTRA HC LS 10W-40 UHPDO SYNTHETIC - EURO VI-V-IV - SCR

ACEA E8, E11, E6, E9, E7; API CK-4, CJ-4, CI-4 PLUS; MB 228.52, 228.51, 228.31, 235.28; VOLVO VDS 4.5; SCANIA LDF-4; RENAULT RLD 3; MAN 3775, 3477, 3271; MTU 3; CUMMINS CES 20081, 20086; MACK EOS4.5; JASO DH-2; CAT ECF-3; DEUTZ DQC III-18 LA

VLDE03

ULTRA HC 10W-40 UHPDO SYNTHETIC - EURO V-III

ACEA E4, E7; API CI-4 PLUS; MB 228.5, 228.3; MAN M3277; MTU 3; VOLVO VDS-3; SCANIA LDF-3, LDF-2; CUMMINS CES 20078, 20077, 20072; MACK EOM PLUS; RENAULT RLD 2, RXD

VLDE14

SUPER LIFE LS 10W-30 SHPDO SYNTHETIC-EURO VI-V-VI - SCR

ACEA E11, E9, E7; API CK-4, CJ-4, SN; MB 228.31; VOLVO VDS 4.5, VDS-CNG; MAN 3575, 3775; RENAULT RLD-3; MTU 2.1; CAT ECF-3; CUMMINS CES 20086, 20081; MACK EOS-4.5; DEUTZ DQC III-18 LA; FORD WSS-M2C171-F1; ALLISON TES 439

VLDE04

SUPER LIFE LS 15W-40 SHPDO NEW TECHNOLOGY BASED

ACEA E11, E9, E7; API CK-4, CJ-4, SN; MB 228.31; VOLVO VDS 4.5, VDS-CNG; MAN 3575, 3775; RENAULT RLD-3; MTU 2.1; CAT ECF-3; CUMMINS CES 20086, 20081; MACK EOS-4.5; DEUTZ DQC III-18 LA; FORD WSS-M2C171-F1; ALLISON TES 439

VLDE05

SUPER LIFE 10W-40 SHPDO SYNTHETIC TECHNOLOGY

ACEA E7; MB 228.3; API CI-4, CH-4; MAN M3275; VOLVO VDS-3; RENAULT RVI RLD-2; CAT ECF-2; MACK EO-N, MACK EO-M PLUS; MTU 2; CUMMINS CES 20078, 20072

VLDE06

SUPER LIFE 15W-40 SHPDO NEW TECHNOLOGY BASED

ACEA E7; MB 228.3; API CI-4, CH-4; MAN M3275; VOLVO VDS-3; RENAULT RVI RLD-2; CAT ECF-2; MACK EO-N, MACK EO-M PLUS; MTU 2; CUMMINS CES 20078, 20072; MIL-PRF-2104H

VLDE07

SUPER LIFE 20W-50 SHPDO NEW TECHNOLOGY BASED

ACEA E7; MB 228.3; API CI-4, CH-4; MAN M3275; VOLVO VDS-3; RENAULT RVI RLD-2; CAT ECF-2; MACK EO-N, MACK EO-M PLUS; MTU 2; CUMMINS CES 20078, 20072; MIL-PRF-2104H

VLDE10

HD S3 SAE 40 MINERAL BASED

ACEA E2; API CF-4, CF



GREEN LINE

LUBRIFICANTI PER AGRICOLTURA
E MOVIMENTO TERRA /
FARM TRACTOR AND OFF-HIGHWAY OIL

I lubrificanti della Green LINE, ottenuti grazie ad un sapiente bilanciamento dei componenti, sono realizzati per garantire le massime performance a tutte le esigenze del settore Agricolo e del Movimento Terra. Questi macchinari, sempre più sofisticati e costosi, operano in condizioni estreme di utilizzo a causa delle elevate potenze richieste, delle riduzioni delle emissioni e dell'uso di un unico lubrificante per diversi sistemi da lubrificare: trasmissioni, motore, circuiti idraulici, frizioni e sistemi frenanti. I prodotti Douglas Oil Green LINE, proponendo una vasta scelta di U.T.T.O. e S.T.O.U., sono in grado di soddisfare tutte le richieste delle principali case costruttrici (CATERPILLAR, ALLISON, John Deere, Massey-Fergusson, CASE, New Holland, KOMATSU, KUBOTA).

Douglas Oil Green LINE lubricants, obtained thanks to a skilful balancing of components, are designed to ensure maximum performance for all the needs of the Agricultural and Public Works Machinery needs. These machineries, increasingly sophisticated and expensive, operate in extreme conditions of use due to the high power required, the reduction in emissions and the use of a single lubricant for different systems to be lubricated: transmissions, engine, hydraulic circuits, clutches and braking systems. Douglas Oil Green LINE products, offering a wide choice of U.T.T.O. and S.T.O.U., are able to satisfy all the requests of the main manufacturers (CATERPILLAR, ALLISON, John Deere, Massey-Fergusson, CASE, New Holland, KOMATSU, KUBOTA).



VLDF03

U.T.T.O. 80W/10W-30 ADVANCE TECHNOLOGY

API GL-4; ALLISON C4; CAT TO-2; FORD M2C 134D; JD J20C, J20D; CNH MAT 3525, 3526; KUBOTA UDT; MF CMS M1143, M1135, M1145; ZF TE-ML 03E, TE-ML 05E; VOLVO WB102, WB101; LANDINI

VLDF06

HD 10W TO-4 ADVANCE TECHNOLOGY

CAT TO-4; ALLISON C4; KOMATSU MICRO CLUTCH

VLDF07

GREEN 15W-40 S.T.O.U. ADVANCE TECHNOLOGY

API GL-4, CF-4; CAT TO-2; ALLISON C4; JD J27; MF M1139

VLDF08

GREEN 80W/20W-30 U.T.T.O. ADVANCE TECHNOLOGY

API GL-4; CAT TO-2; ALLISON C4; JD J20C; MF M1135

VLDF12

POWERTRANS U.T.T.O. 80W/10W-30 ADVANCE TECHNOLOGY

API GL-4; CAT TO-2; ALLISON C4; JD J20D; MF M1135-M1141-M1143; JI CASE MS 1205/1206/1207/1210 and B6; M2C86D & 134D

LUBRIFICANTE MOTOSEGHE / CHAINSAW LUBRICANT

VLEZ01

CHAINOIL

ALTA BIODEGRADABILITÀ, ANTISIURA, ANTIOSSIDANTE, UNTUOSANTE

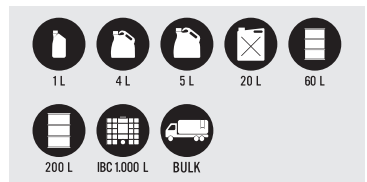


TRANSMISSION LINE

LUBRIFICANTI PER
TRASMISSIONI MECCANICHE /
MECHANICAL TRANSMISSION
LUBRICANTS

Douglas Oil presenta una linea Transmission Line specialistica per cambi e differenziali di automobili e veicoli industriali. L'alta qualità degli additivi e delle basi utilizzate garantisce la massima protezione per gli ingranaggi, contribuendo alla riduzione di rumori e degli attriti. L'accurata selezione delle componenti utilizzate ha permesso di ottenere dei prodotti GEAR, a base minerale con additivazione API GL4/GL5 EP, idonei per cambi e differenziali ipoidi e dei prodotti a base sintetica SUPER GEAR con tecnologia TDL (total-drive-line) e LS (limited-slip) per i cambi manuali di ultima generazione con spiccate caratteristiche di riduzione dei consumi (Fuel Economy).

Douglas Oil presents a specialized Transmission Line for automobile and industrial vehicle transmissions and differentials. The high quality of the additives and bases used guarantees maximum protection for the gears, contributing to the reduction of noise and friction. This range is composed by GEAR PRODUCTS, mineral based with API GL4/GL5 EP additives which are suitable for gearboxes and hypoid differentials, and SUPER GEAR products which are synthetic technology based with TDL (total-drive-line) and LS (limited-slip). They are suitable for the most recent manual transmissions and "new concept" gearboxes whose main feature is fuel consumption reduction (Fuel Economy).



VLDH02

SUPERGEAR 75W-80 SYNTHETIC TECHNOLOGY

API MT-1, GL-4*, GL-5; ZF TE-ML 01L, 02L, 08, 16K; MAN 341 Z4, Z3, E3, TL; BMW MTF LT-4; MB 235.10; GM 1940750, 1940759; SCANIA STO 1.0; VOLVO 97305, 97308

VLDH03

SUPERGEAR 75W-90 SYNTHETIC TECHNOLOGY

API MT-1, GL-4, GL-5 + LS; MAN 341 Z2, 341 E3, 3343 S, 342 M2; VW G 50; BMW MTF LT-4; MB 235.8, 235.10, 235.11; ZF TE-ML 02B, 05B, 05C, 05D, 07A, 08, 12B, 12L, 12N, 16F, 17B, 19C, 21B

VLDH04

SUPERGEAR 85W-140 ADVANCE TECHNOLOGY

API GL-5; MIL-L-2105D; MB 235.1; VOLVO 97319; SCANIA STO 1.0; ZF TE-ML 05A, 12E, 16D, 17B, 19B, 21A

VLDH05

SUPERGEAR 80W-90 ADVANCE TECHNOLOGY

API GL-4, GL-5; MIL-L-2105D; MAN 341 Z1, 341 E1; VOLVO 97321, 97310; ZF TE-ML 02B, 05A, 07A, 12E, 16A, 16B-D, 17A, 17B, 19A, 19B, 1A; SCANIA STO 1.0

VLDH06

GEAR ZC 140 NEW TECHNOLOGY

API GL-4; MAN 342M1; MB 235.0; VOLVO 97310; ZF TE-ML 07A, 16A, 17A, 19A, 21A

VLDH07

GEAR ZC 90 NEW TECHNOLOGY

API GL-4; MAN 342M1; MB 235.0; VOLVO 97310; ZF TE-ML 07A, 16A, 17A, 19A, 21A

VLDH08

GEAR 250

API GL-4; MIL-L-2105C



AUTOMATIC LINE

LUBRIFICANTI PER TRASMISSIONI AUTOMATICHE /
AUTOMATIC TRANSMISSION LUBRICANTS

I lubrificanti per trasmissioni automatiche Douglas Oil sono realizzati con l'utilizzo di basi selezionate, sintetiche e minerali, ed additivi caratterizzati da una elevatissima stabilità all'ossidazione ed una eccellente resistenza nelle più severe condizioni di utilizzo. Le trasmissioni automatiche sono oggi più complesse che mai e, per questo, le aspettative riguardo ai fluidi per trasmissione automatica sono sempre più alte. In effetti, la trasmissione automatica è probabilmente il componente meccanico più complicato di un'automobile, coinvolgendo impianto elettrico, sistemi meccanici, componenti idraulici e processori computerizzati per restituire un cambio ottimale su tutte le marce e trasferire la potenza del motore alle ruote motrici.

Duglasoil dispone di un'ampia gamma di fluidi progettati per proteggere i componenti critici della trasmissione e prolungarne la durata, in grado di assicurare cambi marcia più fluidi più a lungo, e una guida più rilassata.

I lubrificanti per trasmissioni automatiche Douglas Oil garantiscono:

- Maggiore coppia
- Ottima protezione dall'usura per prolungare le prestazioni e la durata dell'intero apparato di trasmissione
- Migliore efficienza operativa con riduzione rischio di slittamento della cinghia
- Migliore stabilità ossidativa con eccellente controllo della viscosità

La gamma Automatic Line, partendo dal classico ATF DEXRON per arrivare ai sofisticati DEXRON VI, DSG, DCT, CVT e POWERSHIFT, prevede prodotti totalmente sintetici, semi-sintetici e minerali in grado di poter soddisfare tutte le esigenze richieste dai Costruttori (GM, ZF, Voith, Mercedes, VW, Man, Volvo) e protrarre il più a lungo possibile gli intervalli di cambio.

Douglas Oil's lubricants for automatic transmissions are made using selected, synthetic and mineral bases and additives characterized by a very high oxidation stability and excellent resistance even when used in the most severe conditions. Today automatic transmissions are more complex than ever, and because of this, expectations regarding automatic transmission fluids are constantly increasing.

Automatic transmissions are indeed the most complicated mechanical component of an automobile, involving the electrical system, mechanical systems, hydraulic components, and computerized processors to provide optimal shifting across all gears and transfer engine power to the drive wheels.

Duglasoil has a wide range of fluids designed to protect critical transmission components and prolong their lifespan, resulting in smoother gear changes for longer, and a more relaxed ride.

Douglas Oil's automatic transmission lubricants guarantee:

- Greater torque
- Excellent wear protection to prolong the performance and lifespan of the entire transmission system
- Improved operational efficiency with reduced risk of belt slippage
- Improved oxidative stability with excellent viscosity control

The Automatic Line range, starting from the classic ATF DEXRON to the sophisticated DEXRON VI, DSG, DCT, CVT and POWERSHIFT, includes completely synthetic, semi-synthetic, mineral products capable of satisfying all the needs required by manufacturers (GM, ZF, Voith, Mercedes, VW, Man, Volvo) and extend change intervals as much as possible.



VLD601 ATF MULTI LV 100% SYNTHETIC

Aisin Warner JWS 3309 (T-IV) & JWS 3324 (WS), AW-1, AW-2, PSA 16 350 560 80, VW 6 053 001; Allison C-3 & C-4, TES-295, TES-389, TES-468; American Motors ATF +3 (MS1716-E), ATF RED 1, RED 1K; Audi/VW 6 052 025 A2, 6 053 025 A2, 6 052 162 A1/A2, 6 052 162 (ZF LifeguardFluid 5) (ZF No. S671 090 170), 6 055 005-A, -A1, -A2, -A6 (ZF LifeguardFluid 6) (ZF No. S671 090 255), 6 055 162-A2, -A6 (ZF LifeguardFluid 6 Plus) (ZF No. S671 090 281), 6 060 162 (ZF LifeguardFluid 8) (ZF No. S671 090 312), 6 052 990, 6 055 540 A2, 6 052 533, 052 055; Bentley P/N PY112955PA; BMW JWS 3309 (T-IV), LA2634, LT7141 (ZF 5 HP 18FL/19FL/24A), ZF 5HP18FL 5HP24, 5HP30, 7045E, ETL 8072B, ATF 2, ATF 3+, ATF 6, ATF 7; BMW/Mini P/N 83 22 0 142 516, P/N 83 22 0 397 114, P/N 83 22 2 163 514 (BMW 8072 B); CAT TO-2; Chrysler ATF+, +2, +3 (MS1716E), +4; Chrysler/Dodge/MOPAR AS 68 RC and AS 69 RC (T-IV), JWS 3309; Chrysler/Dodge/Jeep 05127382AA, 68043742AA, 68157995AA, 68157995AB, Borg Warner 68049954AA, 68218925AA and 68218925AB, MOPAR SP IV, 68171866AA/68171869AA; Daimler/Mercedes MB 236.12, 236.14, 236.41, 236.15, 236.16, 236.17; Daewoo LT 71141; Daihatsu AMMIX ATF D-II, AMMIX ATF D-III SP; Esso LT 71141; FIAT T-IV type, JWS 3309; 9.55550-AV5, 9.55550-AV6; Ford MERCON®, MERCON® LV (FF-WSS-M2C-938A/SF, XT-10 QLV), ATF C-M15, FNR5 (Mazda M5, XT-9-QMM5), WSS M2C 138CJ, 166H, WSS M2C 922A1, 924A (XT-9-QAW) JWS 3309, FORD/Lincoln/Mercury P/N XT-10-QLV [LV], P/N XT-6-QSP or -DSP [SP/GM 9986195 (Aisin AW-1, JWS 3309), TASA, DEXRON®-II, DEXRON®-IID, DEXRON®-IIE, DEXRON®-IIG, DEXRON®-IIH, DEXRON®-VI, 1940700, 1940767, 21005966, 22717466, 88900925, 9986195, 93160393, Transfer Case (AutoTrak II), Honda ATF-Z1 (except in CVTs), DW-1, Type 3.0, Type 3.1; 08263-999-01HE (EU), 08200-9017 (USA); GM/GMC/Opel/Saturn AW1, P/N 88863400, 88863401; Hyundai/Kia SP-IV (00232-1904/04500-00115), SP-IV M (SP4-M), SP-IV RR, SP-III, Dex-III/ SP-III, JWS 3314, NWS 9638, 040000C90S6, NUMMD40 CH20 Red-I; Honda/Acura DW-1, Honda 082000-9017 (ATF Type 3.1); Hyundai/Kia NWS-9638 T-5, P/N 040000C90S6, SP-IV / SPH-IV; Jaguar ATF 3403 M115, ATF 3403-M115, ATF LT7141, ZF 5HP24, JLM20238, ATF 3403 JLM20238, K17, JLM 20292, Fluid 8432, 02JDE26444, WSS-M2C922A1; JASO M315-2013 IA, M315-2013 IA-LV, M315-2013 2A, JEEP ATF-3, KIA ATF SP-II, SP-III, SP-IV, SP-IVM, Red I; Land Rover TK500050, LR022460, LR023288; Lexus JWS 3309; MAN 339; Mazda ATF D-II, ATF M-III, ATF M-V, ATF FZ, ATF A7, ATF F-1, ATF S-1, ATF N-1, ATF 3317, FW 6A EL, FW 6AX EL; MB ZF 4HP20; MINI COOPER T-IV; Mitsubishi DiaQueen SK, SP-II, SP-III, SP-IV, AW, J2, J3, ATF-MAI, ATF PA, NAG 1 (Chrysler, Jeep, Cherokee); Nissan Matic Fluid C, D, J, K, P, S, W, Nissan/Infinity Matic-S, Opel/MGM 19 40 700, 19 40 767, 21005966 Transxale, 22 17466, 88900925, 9986195; Peugeot ZF 4HP20; Peugeot/Citroen Z 000169756, (PSA) AL4 Automatic gearbox oil (#9730-AE); Porsche ZF 5HP19FL, ZF 5HP20, LT7141, ATF 3403-M115, T-IV (JWS 3309), 000 043 205 09, 999 917 546 00 (A2), 000 043 205 28, 000 043 304 00, Z 000169756; PSA B71 2340; Renault DPO/AL4, Maserati SP-IV (231603; Matic D2, Samsung SATF-D; Saab T-IV (JWS 3309), 93 165 147 -AW-1, 93 160 393, Power Steering Fluid 2634, 45 30 09 800, 931605-A8; Saturn T-IV (JWS 3309); Scion (all vehicles); Shell 3403, M115, 3353, 134, 1375.4, LA 2634, M-1375.4, L 12108; Ssang yong DSHI 5M-86; Subaru ATF, KOI4QY0700, ATF 5AT, DEXRON®-II, ATF, ATF HP, Opel Original ATF 0917946/93160393; Suzuki ATF AW-1, AT OIL 5006, ATF 2326, ATF 2384K, JWS 3309, ATF 3314, ATF 3317, Texaco 7045-E, 8072B, N402; Toyota ATF D-II, ATF D-III, ATF T-III, ATF T-IV, ATF WS, Toyota/Lexus/Scion WS, Vickers M2950-S, I-286-S; Voith 55.6335.xx (G607); Volvo 97325, 97335, CE 97340, PN 1161521, PN 1161540/1161640, PN 31256774/31256675, PN 1161621; VW 5 HP (ZF 5 HP 30), 5HP (18FL 30), 5HP (19FL 24A), 6-055-025 A2 (JWS 3309), 6055 540 (A2), 6 052 162 (ZF LifeguardFluid 5), 6 055 005-A, -A2 (ZF LifeguardFluid 6), 6 055 162-A2, -A6 (ZF LifeguardFluid 6 Plus), 6 060 162 (ZF LifeguardFluid 8), TL 521 62; ZF all 3 & 4, ZF 6, ZF 8, ZF 9 speed transmissions, ZF TE-ML 05L, ZF TE-ML 09, ZF TE-ML 11A, 11B, ZF TE-ML 21L; Service-fill for 8 and 9 speed step-ATs; Dexron VI; ZF-LIFE GUARD FLUID 6.

eMobility: Honda eHEV; Honda IMMD; Mazda SKYACTIVE-HYBRID; Nissan Altima Hybrid; Tesla; Toyota THSII/Toyota Prius; Toyota THS 5th Gen.

VLD602 ATF DEXRON III SYNT 100% SYNTHETIC

GM DEXRON III, IIIH, IIG, IIE; MB 236.5, 236.9, 236.10, 236.11, 236.12; VOITH G607; ALLISON C-4; CAT TO-2; ZF TE-ML 02F, 03D, 04D, 09B, 11B, 14A-B, 16L, 17C; MAN 339 V2, 339 V2; VOLVO 97341; FORD MERCUR V

VLD604 ATF DEXRON IID ADVANCE TECHNOLOGY

GM DEXRON IID; ZF TE-ML 02F, 03D, 04D, 09A, 11A-B, 14A, 17C; VOITH 55.6335.32 (G607); MAN 3390; ALLISON C4; CAT TO-2; MB 236.1, 236.7; FORD MERCON M2C 138CJ

VLD605 ATF SPECIAL CVT 100% SYNTHETIC

Audi/VW TL 52180, 52516, 6 052 518 A2, 6 052 516 A2 TL 521 16 (G 052 516), TL 521 80 (G 052 180), Audi Multitronic; BMW Mini Cooper ELZ 799/EZL, CVT VI, EZL 799A/83 22 0 136 376/83 22 0 429 154; Citroen PSA Standard 9735EF; Chery CVT, WGF-I/Shell SL 2100, Green IV; Daihatsu Ammix CVTF DFE, CVT DC, CVT Fluid DFC, Fluid TC; FCA Mopar CVTF+4, NS-2; Dodge/Jeep/Chrysler NS-2; Dodge/Chrysler/Jeep/Mopar CVT+4; Fiat Tutela Car CVT NG Fujiyuuko i-Cnm, VTF FG; Ford MERCON V, M2C933-A, M2C928-A, Escape Hybrid eCVT; GM CVT, DEX-CVT, 1940713, 1940714, GM/Saturn CVTF I-Green2, GM VT40/GM HP CVT; Honda HMMF, HGF2, Ultra HEV-Type I; Hyundai Kia SP-III, CVT-I; Idemitsu CVTF-EXT; Lexus Fluid TC, Fluid FE; Mazda CVTF 3320; MB 236.20; Mitsubishi CVTF-JI, CVTF-J4 and -J4+, CVTF ECD J4, SP-III; Nissan NS-1, NS-2, NS-2V, NS-3, N-CVT; Subaru i-CVT FG, i-CVT F, e-CVT F, Lineartronic CV-30, High Torque CVTF, Lineartronic chain CVT and CVT II Fluid, KD425Y0710 & KD425Y0711, chain CVT 3 Fluid, KD42Y0700, High Torque CVTF-LV; Suzuki CVT Green 1 & 2, CVTF 3320, CVTF TC, CVTF 4401, NS-2; Toyota CVTF TC, FE, WS; JASO M358; Lexus Fluid TC, FE; MG Rover EM-CVT; Opel/Vauxhall 7-speed CVT, 99529854; PSA 9735EF; Perodua D-CVT; RN Elf Matic CVT, RN CVT CK/SK/FK; Volvo CVT 4959, eMobility; Ford Escape Hybrid with eCVT; Honda eHEV; Honda IMMD; Jatco CVT 8 Hybrid; Mazda SKYACTIVE-HYBRID; Nissan Altima Hybrid; Toyota THSII/Toyota Prius; Toyota THS 5th Gen.

VLD606 VAG SPECIAL DSG/DCT 100% SYNTHETIC

API GL-4; BMW 83220306816, 83220397244, 83220440214, 83222147477, 83222148578, 83222148579, 8322 2152426, 83222167666, 83222409710, 83222433157, DCTF-2, DCTF-2, DTF 1, FFL-4, MTF LT-3, MTF LT-5; CHERY 730DHB/DHC 70CT300, 738DHA 70CT380, 908091085, 68157995AA, 68044345EA and GA, Power shift 6 speed; DAIMLER TRUCK DTFR 13C130; DiaQueen SSTF-I; FERRARI TF DCT-F3; FIAT 9.55550-DAT1, 9.55550-M22, 9.55550-M26, 9.55550-AV5; FORD F-DC, WSS-M2C200-D2, WSS-M2C200-D3, WSS-M2C200-E1, WSS-M2C218-A1, WSS-M2C936-A part #1490763/1490761; GM FFL-4; GREAT WALL GW7DCT1, GWM 70CT450; HONDA MTF II; HYUNDAI 04300-2N110 WDHO-I; KIA 04300-2N110 WDHO-I; KUNLUN DCTF-7S; JAGUAR Q2JDE 26444; LAND ROVER LR023288; MB 236.21, 236.22, 236.24, 236.25, 239.21, SLS A0019898603; McLAREN FFL-4; MITSUBISHI DIAMOND QUEEN SSTF-I, TC-SST 6 speed (GFT)/M2320065; NISSAN 999MP-6TRTQOP, DCT FLUID, GR6, GT-R R35, LV MTF-I, R35 SPECIAL-P0K Transmission oil for ZF (DCT Transmission oil for ZF); Peugeot/Citroen DCS 6 speed (GFT) 9734.S2; PORSCHE 000.043.20, 000.043.207.29, 000.043.207.30, 000.043.305.63, 999.917.080.00, 999.917.080.01, 999.917.546.00, TF 0870; PSA 1618078480, 9730 A8, 9734 S2, JWS 2271; RENAULT 7711579456, 771785243, B01450 EDC 6-Speed, EDC-7 speed, Talisman R70, DC4, DW5, DW6; SINOPEC DCTF-GS; SUZUKI 99000-22B27-036; S-Tronic 717 speed VW (Audi, Seat, Skoda); TOYOTA JWS 2271, LF, LV 75W MT; VOLVO 1161520-7, Powershift 6 speed (GFT) / 1161838/1161839; VW 6 009 317, 6 052 171, 6 052 178, 6 052 182 or A6 / TL 521 82 (spec), 6 052 512, 6 052 513, 6 052 527, 6 052 529, 6 052 726, 6 052 798, 6 052 796, 6 055 512, 6 052 529 A2 / TL 52529 (spec), 6 060 726, 6 060 162, 6 070 726, 6 052 536, 6 055 532, 6 055 536, 6 052 512, 6 055 549, 6 055 529; ZF TE-ML-II, ZF LIFE GUARD 8.

VLD608 ATF ULTRA LV 100% SYNTHETIC

ATF AW-2; Aisin Warner AW-2; ATF Shell 3353 / 134/ L12108; Audi/Seat/Skoda/VW G053001/G060542; BMW ATF 3+, ATF 6, ATF 7/8322 2 413 477, BMW ATF L 12108, ATF M1375.4, BMW/Mini (8-Speed AT BMW GAB645AW); Chrysler; Citroen EAT8; DAIMLER ATF134, ATF134FE, MB 236.1, 236.3, 236.5, 236.6, 236.7, 236.8, 236.9, 236.10, 236.11, 236.12 (A 001 989 45 03 10), 236.14, 236.15, 236.16, 236.17; DEXRON ULV; Ford MERCON® SP, MERCON® ULV/XT-12-QLV, WSS-M2C949-A; GM Dexron® ULV / 19352619; Honda ATF Type 3.1, DPFI (DPSE), DPSE Ultra 4WD Rear, DW-I; Hyundai SPH-IV, SP-IV; KIA SP-IV, SP-IV-RR; Land Rover AW-1, M1375.4; Mazda ATF A7, ATF FZ; Mitsubishi 4031610 ATF Fluid J3; Mitsubishi Dia Queen ATF-PA, Mopar ZF 8 & 9 Speed ATF; Nissan 999MP-MTPIOP, 999MP-MTSOOP Matic Fluid S, ATF Matic P / 999MP-MTPIOP; Peugeot/PSA 1635056080 (8-Speed AT PSA AMN8/ATN8/AXN8); Renault Matic J6; SsangYong Caltex, DSI M11 6-Speed, DSI M78 6-Speed; Toyota/Lexus JWS3324, ATF T-WS, VOLVO 31492172 (8-Speed AT AWF8G45), 312492173 (8-Speed AT AWF8G65), 31256774, 31256775, 31256776; VW TL 52533, TL 55005, TL 55540, TL 60162, 6 053 001 A2 (8-Speed AT VW 09S (AQ300-BF), 6 060 540; ZF TE-ML II 6HP, 8HP, 9HP (ZF LIFE GUARD FLUID 6, 8, 9); North American OEM Ultra-low viscosity.

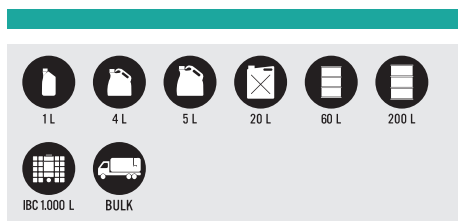


MARINE LINE

LUBRIFICANTI PER NAUTICA OUTBOARD / NAUTICAL OUTBOARD LUBRICANTS

I lubrificanti Douglas Oil per applicazioni Outboard, studiati per rispondere alle esigenze della nautica da diporto, sono realizzati con l'utilizzo di componenti di altissimo livello qualitativo. L'Outboard 2T è formulato per tutti i motori marini 2 tempi, con o senza miscelatore separato, con l'obiettivo di garantire la massima protezione contro l'ossidazione e la protezione del motore. L'Outboard 4T è realizzato per i motori nautici 4 tempi, sia fuoribordo che entro bordo, garantendo la massima protezione del motore e degli organi di trasmissione sottoposti ad un ambiente fortemente ossidante. I Marine 4012 sono indicati per la lubrificazione dei motori a 4 tempi diesel alimentati a gasolio utilizzati in marina, nell'industria e nella trazione ferroviaria che impiegano gasolio con un contenuto di zolfo inferiore all'1%.

Douglas Nautical Lubricants Outboard range is developed for private and commercial boating. Products are made using high quality components. The OUTBOARD 2T is formulated for all 2-stroke marine engines, with or without a separate mixing. The main aim is to provide maximum engine protection and avoid the oxidation. The OUTBOARD 4T is created for 4-stroke marine engines, inboard or outboard, ensuring maximum protection of both engine and transmission components subjected to a highly oxidizing environment. Marine 4012 are suitable for the lubrication of 4-stroke diesel engines powered by diesel used in marine, industry and railway traction which use diesel with a sulfur content of less than 1%.



VLDL01 OUTBOARD 2T

NMMA TCW-III

VLDL02 OUTBOARD 4T 15W-40

API SM; JASO MA2

VLF06 MARINE OIL 4012

API CF

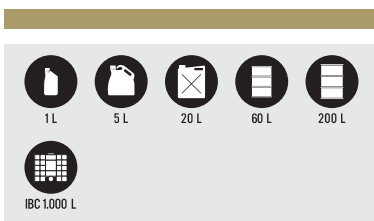


FUNCTIONAL LINE

La gamma Douglas Oil di fluidi funzionali è costituita dai tradizionali brake fluids DOT 4 destinati ad un uso convenzionale, nonché quelli ad elevatissime prestazioni quali i DOT 5.1, e dai fluidi speciali per circuiti frenanti e sospensioni di alcuni veicoli PSA/Citroen e Fiat. La gamma Douglas Oil di Antigeli è caratterizzata da una moderna inibizione che conferisce al prodotto elevate proprietà anticorrosive ed antischiuma nonché ottime caratteristiche Long Life tali da soddisfare le esigenze di lunga durata e stabilità all'ossidazione richiesta dai principali Costruttori Mondiali (VW, Mercedes, Volvo, Man, Renault).

The Douglas Oil range of functional fluids consists of traditional DOT 4 brake fluids intended for conventional use, as well as those with very high performance such as DOT 5.1, and special fluids for braking and suspension systems of some PSA/Citroen and Fiat vehicles.

The Antifreeze Douglas Oil range is characterized by a modern inhibition that gives the product high anti-corrosion and anti-foam properties as well as excellent LongLife characteristics such as to meet the needs of long life and oxidation stability required by the main World Manufacturers (VW, Mercedes, Volvo, Man, Renault).



BRAKE FLUID

VLEM01 SUPER BRAKE FLUID DOT5.1

SAE J 1703; FMVSS 116 DOT4, DOT5.1; ISO 4925; Recommended for VW, AUDI, FERRARI, MASERATI

VLEM02 SUPER BRAKE FLUID DOT4

SAE J 1703; FMVSS 116 DOT3, DOT4; ISO 4925; CUNA NC 956 DOT4; IVECO 18-1820

VLDM03 SUPER LHM

CITROEN PSA B-712710; FIAT LHM

ANTIFREEZE

VLEN01 SUPER ANTIFREEZE LONG LIFE TECHNOLOGY

RED COLOR ASTM D 3306 TYPE3; CUNA NC 956-16; VW TL 774 D/F (G12/G12+); MB 325.3; MAN 324 SNF; GM 6277M

VLEN02 POLAR ANTIFREEZE

CUNA NC 956-16; ASTM D 3306 TYPE1, ASTM D 6210 TYPE 1-FF; VW TL 744C (G11)

VLEN03 POLAR -40

ASTM D 3306 TYPE3; CUNA NC 956-16

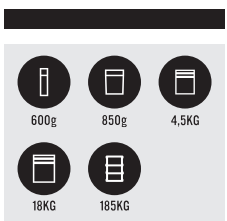


GREASE LINE

GRASSI LUBRIFICANTI/ GREASES

Douglas Oil ha realizzato una gamma di grassi lubrificanti ottenuti dalla combinazione di selezionate basi lubrificanti con moderni saponi di ossidi metallici ed additivi di elevatissimo livello qualitativo. La Grease Line è finalizzata alle applicazioni richieste dalla trazione pesante e dal movimento terra.

Douglas Greases range is obtained through the combination of selected base oils with modern metal oxide soaps and high quality additives. The Grease Line is suitable for heavy duty vehicles and construction equipment.



VLEP01

GREASE MOLY
N.L.G.I. 2; ISO-L-X-BCHB

VLEP02

GREASE L2 EP
N.L.G.I. 2; ISO-L-X-BCHA EP

VLEP03

GREASE L2
N.L.G.I. 2; ISO-L-X-BCHA

VLEP04

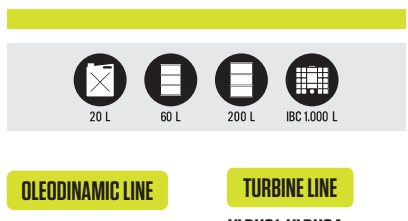
GREASE UNIVERSAL GREEN
N.L.G.I. 2; ISO-L-X-BAGA



INDUSTRIAL LINE

Tutti i macchinari, industriali e no, impiegano oli idraulici e da lubrificazione. Che si tratti di generare e trasmettere energia, ridurre o trasmettere forze motrici, generare raffreddamento o aria compressa, di applicazioni di macchine utensili o di molte altre aree di produzione, i lubrificanti industriali hanno un compito chiave da svolgere. Molti processi funzionano senza intoppi solo con soluzioni lubrificanti appositamente realizzate. Si tratta pertanto di fluidi che ricoprono un ruolo fondamentale nel garantire performance sempre più elevate nei sistemi automatizzati. Douglas Oil propone un portfolio prodotti in grado di soddisfare tutte le esigenze dell'industria, contribuendo in modo significativo a migliorare la produttività e l'efficienza riducendo al contempo il consumo energetico.

All machinery, industrial or not, use hydraulic or lubrication oils. Whether it is generating and transmitting energy, reducing or transmitting driving forces, generating cooling or compressed air, machine tool applications or many other manufacturing areas, industrial lubricants have a key task to perform. Many processes only run smoothly with specially made lubricant solutions. Therefore, these are fluids that play a fundamental role in guaranteeing ever higher performance of automated systems. Douglas Oil industrial lubricants can make a significant contribution to improving productivity and efficiency as well as reducing energy consumption.



OLEODINAMIC LINE

VLDRO1, VLDRO2, VLDRO3
CYRCOL 32, CYRCOL 46,
CYRCOL 68

ISO 3448; DIN 51524 HM

VLDRO9, VLDRI0, VLDRI1, VLDRI2

HYDROL HLP 32, HYDROL HLP 46,
HYDROL HLP 68, HYDROL HLP 100 ISO

DIN 51524 PART 2 HM, 51524 HLP;
CINCINNATI P68, P69, P70; DENISON

HF-O, HF-2

VLDRI6, VLDRI7, VLDRI8
HYDROL HVI 32, HYDROL HVI 46,
HYDROL HVI 68

DIN 51524 PART 3 HM, 51524 HLP,
51524 HLVP; CINCINNATI P68, P69,

P70; DENISON HF-O, HF-2; AFNOR NF E
48603 HV

VLDRO1, VLDRO2, VLDRO3, VLDRO4

LCA32, LCA 46, LCA 68, LCA 100
COMPRESSORI ROTATIVI / ROTATIVE
COMPRESSORS; VICKERS V104C; DIN

51506 VD-L

WAY LINE

VLDTO3, VLDTO4
WAY OIL 68, WAY OIL 220

ISO-L-HG; DIN 51502 CGLP; CINCINNATI
P-47, 50, 53

TURBINE LINE

VLDU01, VLDU04

TURBINOIL 32, TURBINOIL 100
ISO 6743/5, ISO-L-TSA, TGA, THA;
DIN 51515-1 LTO; CEI 10-8

GEAR LINE

VLDV01, VLDV02, VLDV03,

VLDV04, VLDV05, VLDV06
EPR 68, EPR 100, EPR 150, EPR

220, EPR 320, EPR 460
ISO CKC; DIN 51517/3 CLP; US

STEEL 224; FZG 12+

THERMIC LINE

VLDW01
DIATHERM 32/S
TOP QUALITY

VLDW03, VLDW04
DIATHERM 32, DIATHERM 100

LOW ASH



INDUSTRIAL OILS



GREASE



NAUTICAL OUTBOARD OILS



FUNCTIONAL



AUTOMATIC TRANSMISSION OILS



MECHANICAL TRANSMISSION OILS



FARM TRACTOR AND OFF-HIGHWAY OILS

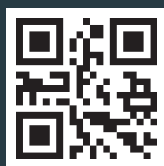


PASSENGER CAR ENGINE OILS



HEAVY DUTY DIESEL OILS

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