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# MD Oils®

## Company Profile



فخر الصناعة الليبية

**MD  Oils®**

**Libyan-Made with Global Quality**  
**صُنعت في ليبيا بجودة عالمية**

**MD  Oils®**

**MD  Oils®**

[www.md oils.ly](http://www.md oils.ly)

MD Oils stands as a symbol of Libyan industrial excellence and innovation, proudly leading the local lubricant industry as one of the first private manufacturers specialized in high-quality engine oils and industrial lubricants.

Driven by a vision to strengthen confidence in Libyan manufacturing, MD Oils combines advanced international technology, premium raw materials, and skilled Libyan expertise to deliver products that meet global standards and compete with leading international brands.

Our mission extends beyond lubricant manufacturing – we are building trust, supporting national industry, and proving that Libyan products can achieve world-class performance, reliability, and sustainability.

تمثل شركة MD Oils رمزاً للتميز الصناعي الليبي والابتكار، حيث تقود صناعة زيوت التشحيم محلياً باعتبارها من أوائل المصانع الخاصة المتخصصة في إنتاج زيوت المحركات والزيوت الصناعية عالية الجودة.

وانطلاقاً من رؤيتنا لتعزيز الثقة في المنتج المحلي، تجمع MD Oils بين أحدث التقنيات العالمية، وأفضل المواد الخام، والخبرة الليبية الماهرة، لتقديم منتجات مطابقة للمواصفات العالمية وقادرة على منافسة كبرى العلامات التجارية الدولية. مهمتنا لا تقتصر على تصنيع الزيوت فقط، بل تمتد إلى بناء الثقة، ودعم الصناعة الوطنية، وإثبات قدرة المنتج الليبي على تحقيق أعلى مستويات الجودة والاعتمادية والاستدامة.

# Our Vision

To redefine the lubricant industry in Libya by delivering world-class quality products that inspire trust, support sustainability, and exceed customer expectations, while positioning Libyan industry as a competitive force in regional and global markets.

## رؤيتنا

إعادة تعريف صناعة زيوت التشحيم في ليبيا من خلال تقديم منتجات ذات جودة عالمية تعزز الثقة، وتدعم الاستدامة، وتفوق توقعات العملاء، مع ترسيخ مكانة الصناعة الليبية كمنافس قوي في الأسواق الإقليمية والعالمية.



## What We Offer

MD Oils ensures exceptional performance and reliability by using premium-quality base oils and advanced additive technologies sourced from globally approved suppliers.

Our products are carefully engineered to protect engines, improve operational efficiency, reduce maintenance costs, and ensure maximum performance under all operating conditions.

## ما نقدمه

تضمن شركة MD Oils أداءً استثنائيًا وموثوقية عالية من خلال استخدام زيوت أساس ممتازة وتقنيات إضافات متطورة يتم الحصول عليها من موردين عالميين معتمدين.

تم تصميم منتجاتنا بعناية لحماية المحركات، وتحسين الكفاءة التشغيلية، وتقليل تكاليف الصيانة، وضمان أعلى مستويات الأداء في مختلف ظروف التشغيل.

## Our Commitment to Innovation

Since its establishment, MD Oils has been committed to continuous innovation and technological advancement. We adopt the latest global production methods and integrate advanced petrochemical technologies with superior raw materials to produce lubricants that meet the highest international standards.

Our dedication to research, quality control, and sustainable development reflects our pride in delivering products made by skilled Libyan hands with global excellence.

## التزامنا بالابتكار

منذ تأسيسها، كرّست شركة MD Oils جهودها للابتكار المستمر والتطور التكنولوجي. نعتد أحدث أساليب الإنتاج العالمية، وندمج تقنيات البتروكيمياويات المتطورة مع أفضل المواد الخام لإنتاج زيوت تشحيم تلي أعلى المعايير الدولية.

إن التزامنا بالبحث والتطوير، ومراقبة الجودة، والتنمية المستدامة، يعكس فخرا بتقديم منتجات مصنوعة بأيدي ليبية ماهرة وبجودة عالمية.



Why Choose MD Oils?  
لماذا تختار MD Oils?

## Why Choose MD Oils?

- › Global Standards: Products that compete with leading international brands in quality and performance.
- › Local Manufacturing Excellence: Proudly made in Libya, supporting national industry and local expertise.
- › Advanced Technology: Continuous development through the adoption of the latest global innovations.
- › International Certifications: Certified by globally recognized organizations including API and ISO standards.
- › High Production Capacity: Reliable supply supported by large-scale production and strategic storage capacity.
- › Sustainability Focus: Environmentally responsible manufacturing processes with long-term industrial vision.

## لماذا تختار MD Oils؟

- › معايير عالمية: منتجات تنافس كبرى العلامات التجارية العالمية في الجودة والأداء.
- › تميز التصنيع المحلي: صناعة وطنية نفخر بها لدعم الصناعة والخبرة الليبية.
- › تكنولوجيا متقدمة: تطوير مستمر من خلال تبني أحدث الابتكارات العالمية.
- › شهادات دولية: اعتماد من جهات عالمية معترف بها مثل API وشهادات ISO.
- › قدرة إنتاجية عالية: قدرة عالية على التوريد مدعومة بإنتاج ضخم ومخزون استراتيجي.
- › التركيز على الاستدامة: عمليات تصنيع مسؤولة بيئيًا ورؤية صناعية طويلة الأمد.

Our Certificates

شهادتد

**MD Oils factory has obtained several internationally recognized certifications that reflect our commitment to quality, safety, environmental responsibility, and operational excellence.**

**Our products are certified by the American Petroleum Institute (API), confirming compliance with international performance and quality standards for lubricants.**

**In Addition, our manufacturing plant holds core ISO certifications that strengthen our commitment to manufacturing excellence and customer satisfaction.**

**حصل مصنع MD Oils على العديد من الشهادات الدولية المعترف بها، والتي تعكس التزامنا بالجودة، والسلامة، والمسؤولية البيئية، والتميز التشغيلي.**

**كما حصلت منتجاتنا على اعتماد معهد البترول الأمريكي (API)، مما يؤكد مطابقتها للمعايير الدولية الخاصة بالأداء والجودة في صناعة زيوت التشحيم.**

**بالإضافة إلى ذلك، تحظى منشأتنا الصناعية بأبرز شهادات الأيزو (ISO) الرئيسية التي تعزز التزامنا بالتميز الصناعي ورضا العملاء.**

The MD Oils factory has obtained several internationally recognized certifications, including:

### API

MD Oils products have received certifications from **the American Petroleum Institute (API)**, confirming that our engine oils comply with international standards for quality and performance.

These certifications highlight the factory's commitment to excellence, sustainability, and safety in the production of motor and hydraulic oils.

حصل مصنع MD Oils على العديد من الشهادات المعترف بها دوليًا، بما في ذلك:

حصلت منتجات MD Oils على شهادات من معهد البترول الأمريكي (API)، مما يؤكد أن زيوت المحركات الخاصة بها تتوافق مع المعايير الدولية للجودة والأداء.

تسلط هذه الشهادات الضوء على التزام المصنع بالتميز والاستدامة والسلامة في إنتاج زيوت المحركات والهيدروليك.



**ISO 14001 : 2015**  
 معيار إدارة البيئة الذي يوضح  
 التزام الشركة بالممارسات  
 المستدامة.

**ISO 45001 : 2018**  
 معيار لإدارة الصحة والسلامة  
 المهنية، مما يضمن بيئة عمل  
 آمنة وصحية للموظفين.

**ISO 9001: 2015**  
 معيار عالمي يحدد المتطلبات  
 اللازمة لنظام إدارة الجودة القوي.  
 وهو يوضح بالتفصيل العمليات  
 والإجراءات والأنشطة المحددة  
 التي يتعين على المنظمات إنشاؤها  
 وتنفيذها وتحسينها من أجل إدارة  
 تصنيع المنتجات أو تقديم الخدمات  
 بنجاح.

**ISO 14001 : 2015**

An environmental management standard demonstrating the company's commitment to sustainable practices.

**ISO 45001 : 2018**

A standard for occupational health and safety management, ensuring a safe and healthy working environment for employees.

**ISO 9001: 2015**

A worldwide standard that sets requirements for a strong Quality Management System. It details specific processes, procedures and activities that organizations must create, implement, and improve in order to successfully manage manufacturing products or delivering services.



# ISO Certificates

## Our Products

MD Oils offers a comprehensive range of high-quality lubricants designed to meet the requirements of modern engines, industrial machinery, and heavy-duty equipment.

Our product portfolio includes passenger car motor oils, diesel engine oils, hydraulic oils, gear oils, transmission fluids, industrial lubricants, and specialty oils developed to ensure superior protection, reliability, and long service life.

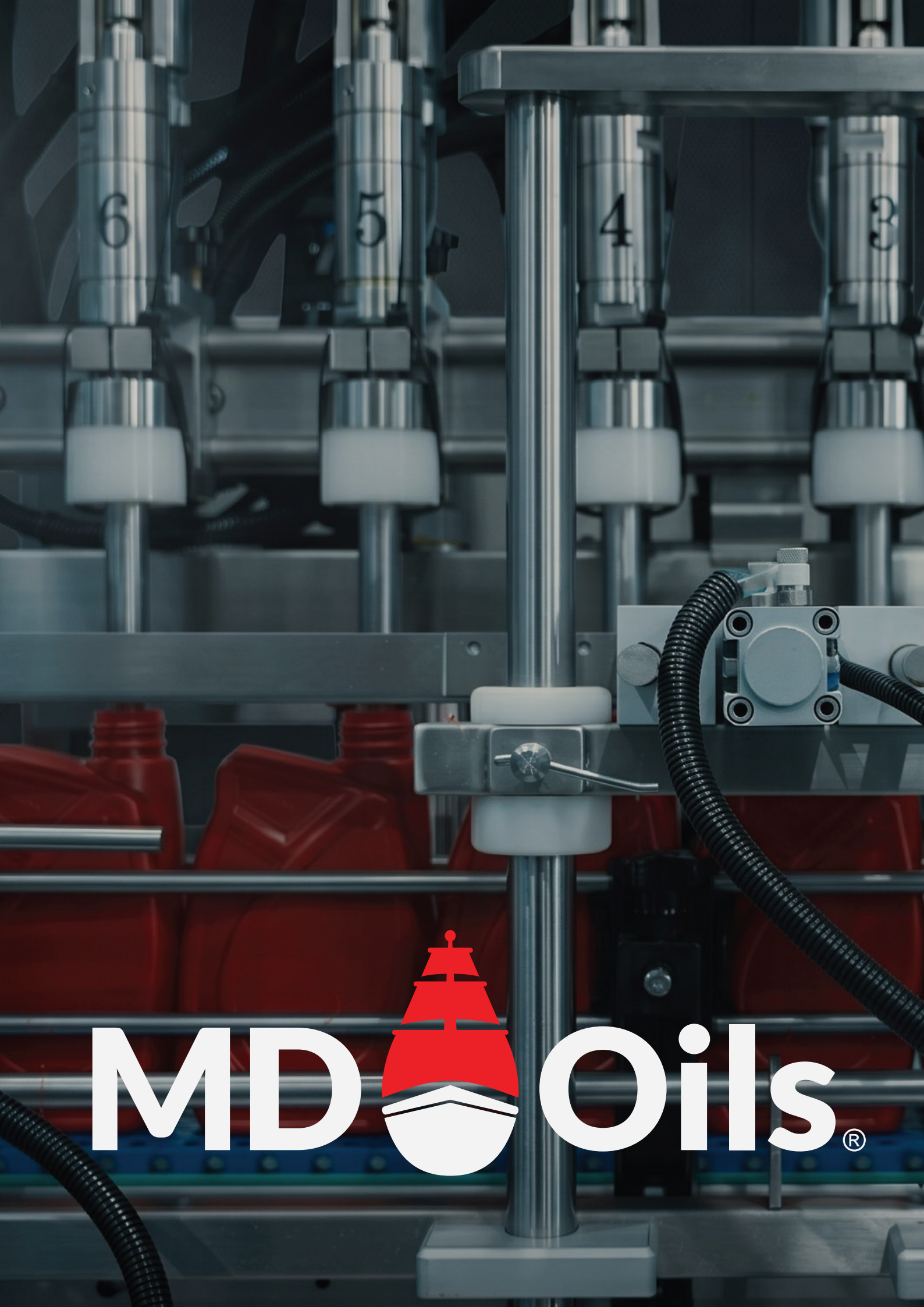
Each product is carefully formulated using premium base oils and advanced additive technology to deliver maximum efficiency under the most demanding operating conditions.

## منتجاتنا

تقدم شركة MD Oils مجموعة شاملة من زيوت التشحيم عالية الجودة المصممة لتلبية متطلبات المحركات الحديثة، والآلات الصناعية، والمعدات الثقيلة.

تشمل مجموعتنا زيوت محركات البنزين، وزيوت محركات الديزل، والزيوت الهيدروليكية، وزيوت التروس، وزيوت ناقل الحركة، والزيوت الصناعية، والزيوت المتخصصة المصممة لضمان أعلى مستويات الحماية والاعتمادية وطول عمر التشغيل.

يتم تصنيع كل منتج بعناية باستخدام زيوت أساس ممتازة وتقنيات متقدمة لتحقيق أقصى كفاءة في أصعب ظروف التشغيل.



MD  Oils®

# زيت محرك البنزين

## SAE 5W-30



MD Oils SAE 5W-30 API SP / ACEA C2-C3 is a premium fully synthetic multi-grade engine oil developed for modern gasoline engines equipped with advanced emission control systems. It is suitable for engines fitted with catalytic converters (TWC) and diesel particulate filters (DPF), offering excellent protection with low SAPS technology. The formulation provides superior cleanliness, oxidation resistance, fuel efficiency, and outstanding protection under high and low temperature operating conditions.

زيت MD Oils SAE 5W-30 API SP / ACEA C2-C3 هو زيت محركات ممتاز متعدد الدرجات ومصمم خصيصًا لمحركات البنزين الحديثة المزودة بأنظمة متقدمة للتحكم في الانبعاثات. وهو مناسب للمحركات المزودة بالمحول الحفاز (TWC) وفلتر جسيمات الديزل (DPF)، ويوفر حماية عالية بفضل تقنية Low SAPS. توفر تركيبته نظافة فائقة للمحرك، ومقاومة ممتازة للأوسدة، وكفاءة أفضل في استهلاك الوقود، وحماية قوية في درجات الحرارة المرتفعة والمنخفضة.



## Technical Data Sheet (TDS)

### MD Oils SAE 5W-30 API SP, ACEA C2/C3 (Advanced Fully Synthetic Performance Oil)

#### DESCRIPTION

- MD Oils SAE 5W-30 API SP, ACEA C2/C3 is a top-tier multi-grade engine oil. Formulated with premium base oils and high-quality additives, it prolongs engine life and prevents lubrication-related failures. Its extensive temperature range stability ensures reliable protection under all operating conditions.

#### APPLICATIONS

- Designed for both gasoline and diesel engines equipped with three-way catalytic converters (TWCs) and diesel particulate filters (DPFs), it surpasses conventional oil protection. Ideal for modern technologies demanding mid-SAPS content, it excels under normal to severe conditions.

#### Performance Features and Benefits

- Superior engine wear protection.
- Advanced cleansing technology to effectively combat dirt, sludge, and engine deposits.
- Optimal fluidity and stable viscosity across a wide temperature range, utilizing premium pour point depressants and viscosity index improvers (VII).
- Reliable engine protection during startup, warm-up, and normal driving.
- Long-term wear protection of critical parts (distribution, rings, liners), increasing engine life.
- Versatile use in both Diesel & Gasoline engines.
- Excellent thermal and oxidation stability.
- Reduces internal wear through the use of advanced base oils.
- Cleans and protects both modern and older engines.
- Meets the most demanding car manufacturers' requirements.
- Maintains engine seal flexibility and integrity.

#### Recommendations / Specifications

International Standards:

- API SP - ACEA C2/C3 - MB 229.31
- Meets the quality requirements of most gasoline and diesel engine manufacturers in the USA, Europe, Africa, Japan, and Korea.

#### Typical Characteristics

Properties	Unit	Test Method	Typical Values
Viscosity Grade	-	SAE J300	SAE 5W-30
Density @ 15°C	g/cm <sup>3</sup>	ASTM D4052	0.852
Cold Cranking Viscosity(CCS) @ -30°C	mPa.s	ASTM D5293	5706
Kinematic Viscosity @ 40°C	cSt	ASTM D445	69.24
Kinematic Viscosity @ 100°C	cSt	ASTM D445	11.71
Viscosity Index	-	ASTM D2270	165
Flash Point (COC)	°C	ASTM D92	226
Pour Point	°C	ASTM D97	-39
Total Base Number	mg KOH/g	ASTM D2896	8.22
Noack Evaporation Loss	%wt.	ASTM D5800	8.6

- Note: The typical characteristics shown in this document are representative of current production. While future production will conform to MD Oils specifications, variations in these characteristics may occur within normal manufacturing tolerances.
  - Health & Safety: Based on available information, this product is not expected to cause adverse health effects when used for its intended application and in accordance with the recommendations provided in the Safety Data Sheet (SDS). SDS are available on request through your local sales office or via our website.
- This product should not be used for applications other than its intended purpose.  
When disposing of used product, take care to protect the environment and comply with local regulations.

# زيت محرك بنزين SAE 10W-40



MD Oils Semi Synthetic SAE 10W-40 API SN is a premium semi-synthetic engine oil designed for gasoline passenger cars, vans, racing vehicles, and light trucks.

It provides excellent thermal stability, oxidation resistance, cold-start protection, and improved fuel economy while maintaining engine cleanliness and performance.

Its advanced formula helps reduce wear, prevent sludge formation, and extend engine life even under harsh driving environments.

زيت MD Oils نصف التخليقي SAE 10W-40 API SN هو زيت عالي الجودة مصمم خصيصًا لمركبات البنزين في سيارات الركاب، والفانات، والسيارات الرياضية، والشاحنات الخفيفة.

يوفر ثباتًا حراريًا ممتازًا، ومقاومة عالية للأكسدة، وحماية فعالة عند التشغيل البارد، وتحسينًا في كفاءة استهلاك الوقود مع الحفاظ على نظافة المحرك وأدائه.

تساعد تركيبته المتقدمة على تقليل التآكل، ومنع تكوّن الرواسب السوداء، وإطالة عمر المحرك حتى في ظروف التشغيل القاسية.



## Technical Data Sheet (TDS)

### MD Oils SAE 10W-40 API SN/CF (Advanced Semi-Synthetic Technology)

#### DESCRIPTION

- MD Oils Semi-Synthetic SAE 10W-40 API SN/CF is a premium, high-performance multi-grade engine oil. Formulated from high-quality base oils combined with advanced performance additives, it is designed to ensure long engine life and provide robust protection across a wide temperature range. Its advanced technology offers extended drain intervals and a formulation that maximizes overall engine durability.

#### APPLICATIONS

- Designed to lubricate both gasoline and light-duty diesel passenger cars, vans, and light trucks. It is a top-tier robust engine oil that ensures reliable performance under various operating conditions, offering a perfect balance between protection and durability for a wide range of modern and older engines.

#### Performance Features and Benefits

- Broad engine compatibility:** Fully suitable for use in both gasoline and diesel engines, providing versatile and reliable protection.
- Outstanding thermal and oxidation stability:** Prevents oil degradation and maintains viscosity even under extreme operating conditions.
- Excellent wear protection:** Specifically safeguards critical engine components, particularly against wear in the valve train and distribution system.
- Advanced engine cleanliness:** Effectively prevents the formation of black sludge and harmful engine deposits.
- Reliable cold-start protection:** Ensures immediate lubrication of all engine components during startup, significantly extending engine life.
- Optimized friction characteristics:** Contributes to smooth engine operation and improved fuel efficiency.

#### Recommendations / Specifications

International Standards:

- API SN / CF
- Meets the quality requirements of most gasoline and diesel engine manufacturers in the USA, Europe, Africa, Japan, and Korea.

#### Typical Characteristics

Properties	Unit	Test Method	Typical Values
Viscosity Grade	-	SAE J300	SAE 10W-40
Density @ 15°C	g/cm <sup>3</sup>	ASTM D4052	0.875
Cold Cranking Viscosity(CCS) @ -25°C	mPa.s	ASTM D5293	6200
Kinematic Viscosity @ 40°C	cSt	ASTM D445	113.49
Kinematic Viscosity @ 100°C	cSt	ASTM D445	15.12
Viscosity Index	-	ASTM D2270	139
Flash Point (COC)	°C	ASTM D92	228
Pour Point	°C	ASTM D97	-38
Total Base Number	mg KOH/g	ASTM D2896	10.04
Noack Evaporation Loss	%wt.	ASTM D5800	6.4

- Note:** The typical characteristics shown in this document are representative of current production. While future production will conform to MD Oils specifications, variations in these characteristics may occur within normal manufacturing tolerances.
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# زيت محركات الديزل

## SAE 15W-40



MD Oils Diesel Engine Oil SAE 15W-40 API CI-4/SL is a premium high-performance multi-grade diesel engine oil specially formulated for heavy-duty diesel engines. It is recommended for trucks, buses, tractors, generators, construction equipment, and commercial fleets operating under severe service conditions. The advanced formulation provides excellent soot control, wear protection, oxidation stability, and engine cleanliness.

زيت محركات الديزل MD Oils SAE 15W-40 API CI-4/SL هو زيت عالي الأداء متعدد الدرجات ومصمم خصيصًا لمحركات الديزل الثقيلة. يوصى باستخدامه في الشاحنات، والحافلات، والجرارات، والمولدات، ومعدات البناء، والأساطيل التجارية التي تعمل تحت ظروف تشغيل شاقة. توفر تركيبته المتقدمة تحكمًا ممتازًا في السخام، وحماية قوية ضد التآكل، وثباتًا عاليًا ضد الأكسدة، ونظافة ممتازة للمحرك.



## Technical Data Sheet (TDS)

### MD Oils SAE 15W-40 API CI-4/SL

#### (Premium Performance Heavy-Duty Diesel Engine Oil)

#### DESCRIPTION

- MD Oils SAE 15W-40 API CI-4/SL is a premium, high-performance multigrade diesel engine oil formulated with high-quality base oils and advanced additive technology. It is designed to provide outstanding engine protection, durability, and reliable performance under severe operating conditions.

#### APPLICATIONS

- Recommended for both modern diesel engine technologies and heavy-duty applications. It is highly suitable for passenger cars, SUVs, light trucks, and vans, as well as high-load commercial vehicles, buses, construction equipment, and industrial machinery operating under demanding conditions.

#### Performance Features and Benefits

- Superior wear and deposit control:** Provides exceptional protection against engine wear, sludge, and harmful deposits.
- Excellent thermal and oxidation stability:** Maintains oil integrity and prevents high-temperature degradation.
- Enhanced engine cleanliness:** Keeps engine internals exceptionally clean, promoting long-term engine durability.
- Stable viscosity profile:** Ensures reliable oil film thickness and stable viscosity at both high and low temperatures.
- Cost efficiency:** Helps reduce overall maintenance costs and significantly extends engine service life.

#### Recommendations / Specifications

##### International Standards:

- API CI-4/SL, ACEA E7-22, Global DHD-1, JASO DH-1.
- OEM Specifications:** MB 228.3 (DTFR 15B110), Volvo VDS-3, MAN M 3275, MTU Type 2.0, Renault RLD-2, Cummins CES 20078/20077, Mack EO-N/EO-M+, Caterpillar ECF-2/ECF-1a, DDC 93K215, Deutz DQC-III/DQC-II, ZF TE-ML 04P / 07D.
- Meets the stringent quality requirements of most leading diesel engine manufacturers across the USA, Europe, Africa, Japan, and Korea.

#### Typical Characteristics

Properties	Unit	Test Method	Typical Values
Viscosity Grade	-	SAE J300	SAE 15W-40
Density @ 15°C	g/cm <sup>3</sup>	ASTM D4052	0.876
Cold Cranking Viscosity(CCS) @ -20°C	mPa.s	ASTM D5293	6800
Kinematic Viscosity @ 40°C	cSt	ASTM D445	113.55
Kinematic Viscosity @ 100°C	cSt	ASTM D445	15.15
Viscosity Index	-	ASTM D2270	139
Flash Point (COC)	°C	ASTM D92	230
Pour Point	°C	ASTM D97	-38
Total Base Number	mg KOH/g	ASTM D5800	11.88

- Note: The typical characteristics shown in this document are representative of current production. While future production will conform to MD Oils specifications, variations in these characteristics may occur within normal manufacturing tolerances.
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# زيت محرك البنزين

## SAE 20W-50



MD Oils Gasoline Engine Oil SAE 20W-50 API SL/CF is a premium high-performance multi-grade engine oil formulated using high-quality base oils and advanced performance additives.

It is specifically designed to provide excellent engine protection, reduce wear, prevent sludge formation, and ensure long engine life under various driving conditions.

This product is suitable for passenger cars, SUVs, light trucks, and gasoline engines operating under normal to severe conditions, delivering reliable performance and protection.

زيت محرك البنزين MD Oils SAE 20W-50 API SL/CF هو زيت عالي الأداء متعدد الدرجات، تم تصنيعه باستخدام زيوت أساس عالية الجودة وإضافات متطورة لتحقيق أفضل حماية للمحرك.

يوفر حماية ممتازة ضد التآكل، ويقلل من تكوّن الرواسب والطين الزيتي، ويساعد على إطالة عمر المحرك في مختلف ظروف التشغيل. هذا المنتج مناسب لسيارات الركاب، وسيارات الدفع الرباعي، والشاحنات الخفيفة، ومحركات البنزين التي تعمل في الظروف العادية إلى القاسية، مع حماية موثوقة.



## Technical Data Sheet (TDS)

### MD Oils SAE 20W-50 API SL/CF

(Premium Protection for Conventional Engines)

#### DESCRIPTION

- MD Oils SAE 20W-50 API SL/CF is a premium, high-performance multi-grade engine oil. Formulated with high-quality base oils and advanced performance additives, it effectively extends engine life, protects critical components from wear, and ensures reliable lubrication across a wide temperature range.

#### APPLICATIONS

- Designed for passenger cars, SUVs, light trucks, and vans operating under normal to severe conditions. It is highly recommended for older or high-mileage engines (including those fitted with conventional carburetors) and light-duty diesel engines where API SL/CF or lower specifications are required. It provides confidence and protection well beyond that of conventional oils.

#### Performance Features and Benefits

- Superior engine wear protection: Safeguards critical engine parts (distribution, rings, plungers, and liners) to significantly increase engine longevity.
- Advanced cleansing technology: Utilizes extra cleaning additives to effectively combat dirt, sludge, and high-temperature engine deposits.
- Optimal viscosity and fluidity: Incorporates premium viscosity index improvers (VII) and pour point depressants to protect against the harmful effects of stop-and-go driving and extreme temperature operations.
- Reliable engine protection during startup, warm-up, and normal driving conditions.
- Broad fuel compatibility: Effectively cleans and protects older engines, and is fully suitable for use in Gasoline, Diesel, and LPG engines.
- Excellent thermal and oxidation stability.
- Reduces internal friction and wear through the use of high-quality base oils.
- Seal conditioning: Maintains engine seal flexibility and integrity to minimize oil leakage.

#### Recommendations / Specifications

International Standards:

- API SL/CF
- Meets the quality requirements of most legacy gasoline and diesel engine manufacturers in the USA, Europe, Japan, and Korea.

#### Typical Characteristics

Properties	Unit	Test Method	Typical Values
Viscosity Grade	-	SAE J300	SAE 20W-50
Density @ 15°C	g/cm <sup>3</sup>	ASTM D4052	0.889
Cold Cranking Viscosity(CCS) @ -15°C	mPa.s	ASTM D5293	8500
Kinematic Viscosity @ 40°C	cSt	ASTM D445	169.75
Kinematic Viscosity @ 100°C	cSt	ASTM D445	20.32
Viscosity Index	-	ASTM D2270	140
Flash Point (COC)	°C	ASTM D92	230
Pour Point	°C	ASTM D97	-27
Total Base Number	mg KOH/g	ASTM D2896	10.24
Evaporation Loss	%wt.	ASTM D5800	5.3

- Note: The typical characteristics shown in this document are representative of current production. While future production will conform to MD Oils specifications, variations in these characteristics may occur within normal manufacturing tolerances.
  - Health & Safety: Based on available information, this product is not expected to cause adverse health effects when used for its intended application and in accordance with the recommendations provided in the Safety Data Sheet (SDS). SDS are available on request through your local sales office or via our website.
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# زيت محرك الديزل

## SAE 40



MD Oils Diesel Engine Oil SAE 40 API CF is a high-quality mono-grade heavy-duty diesel engine oil developed for trucks, buses, tractors, generators, marine engines, and industrial applications.

It is formulated with premium virgin base oils and advanced additives to provide excellent thermal stability, deposit control, wear protection, and extended engine durability.

Its strong oil film ensures superior protection against friction, oxidation, and high-temperature deposits under heavy operating conditions.

زيت محرك الديزل MD Oils SAE 40 API CF هو زيت عالي الجودة أحادي الدرجة ومخصص لمحركات الديزل الثقيلة مثل الشاحنات، والحافلات، والجرارات، والمولدات، والمحركات البحرية، والتطبيقات الصناعية.

تم تصنيعه باستخدام زيوت أساس ممتازة وإضافات متقدمة لتوفير ثبات حراري ممتاز، والتحكم في الرواسب، والحماية من التآكل، وإطالة عمر المحرك.

تضمن طبقاته الزيتية القوية حماية فائقة ضد الاحتكاك، والأكسدة، والرواسب الناتجة عن درجات الحرارة العالية في ظروف التشغيل الشاقة.



## Technical Data Sheet (TDS)

### MD Oils SAE 40 API CF

#### (Premium Heavy-Duty Mono-Grade Diesel Engine Oil)

#### DESCRIPTION

- MD Oils SAE 40 API CF is a high-quality, conventional mono-grade heavy-duty diesel engine oil. Formulated to provide excellent performance in commercial fleets, marine, and industrial applications, its robust formulation maximizes engine durability and ensures reliable lubrication under demanding conditions.

#### APPLICATIONS

- Recommended for use in naturally aspirated and turbocharged legacy diesel engines fitted in trucks, tractors, buses, light commercial vehicles (LCVs), and power generators. It is ideal for both on-highway heavy-duty trucking and off-highway applications, including construction, mining, quarrying, and agriculture.

#### Performance Features and Benefits

- Exceptional high-temperature protection: Safeguards hot-running engines under heavy continuous loads, ensuring optimal protection for pistons and extreme loads in the valve-trains.
- Inherent shear stability: As a mono-grade oil, it completely resists viscosity shear-down, maintaining oil pressure and film thickness under severe mechanical stress.
- Optimal TBN reserves: Effectively neutralizes acidic combustion by-products, protecting engine components against corrosive wear.
- Advanced detergency and dispersancy: Provides excellent deposit control, soot handling, and keeps engine internals exceptionally clean.
- High thermal and oxidation stability: Minimizes oil degradation and sludge formation to maintain performance integrity.
- Reduces internal wear: Maximizes component life and overall engine durability.
- Component compatibility: Extends gasket and seal life to minimize oil leakage and maintain pressure.

#### Recommendations / Specifications

International Standards:

- API CF
- Meets the quality requirements of most legacy heavy-duty diesel engine manufacturers in the USA, Europe, Japan, and Korea.

#### Typical Characteristics

Properties	Unit	Test Method	Typical Values
Viscosity Grade	-	SAE J300	SAE 40
Density @ 15°C	g/cm <sup>3</sup>	ASTM D4052	0.894
Kinematic Viscosity @ 40°C	cSt	ASTM D445	140.92
Kinematic Viscosity @ 100°C	cSt	ASTM D445	15.61
Viscosity Index	-	ASTM D2270	115
Flash Point (COC)	°C	ASTM D92	241
Pour Point	°C	ASTM D97	-22
Total Base Number	mg KOH/g	ASTM D2896	9.06
Evaporation Loss	%wt.	ASTM D5800	4

- Note: The typical characteristics shown in this document are representative of current production. While future production will conform to MD Oils specifications, variations in these characteristics may occur within normal manufacturing tolerances.
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MD Oils.

# زيت محرك الديزل

## SAE 50





## Technical Data Sheet (TDS)

### MD OILS Diesel Engine Oil SAE-50 API CF

(Premium mono-grade heavy-duty lubricant)

#### DESCRIPTION

MD OILS Diesel Engine Oil SAE-50 API CF is a premium mono-grade heavy-duty lubricant, engineered to deliver outstanding performance in truck fleets and industrial diesel applications. Developed with advanced additive technology, it ensures reliable protection under severe operating conditions, supports extended drain intervals, and enhances engine durability by maintaining stability across high temperatures and heavy loads.

#### APPLICATIONS

MD OILS Diesel Engine Oil SAE-50 API CF is recommended for naturally aspirated and turbo-charged diesel engines used in trucks, tractors, buses, goods carriers (LCVs), and generators. It is also suitable for on-highway heavy-duty trucking and off-highway industries such as construction, mining, quarrying, agriculture, and mixed fleet operations.

#### Performance Features and Benefits

- High thermal and oxidation stability.
- Excellent deposit control and acid neutralization.
- Superior high-temperature protection for hot running engines.
- Effective start-up wear protection under heavy load.
- Cleaner engines and extended component life.
- Enhanced soot handling capability.
- High TBN reserves for long-term protection.
- Stay-in-grade shear stability.
- Advanced detergency/dispersancy system.
- Improved viscosity control and pumpability of used oil.
- Compatibility with seals and gaskets.

#### Recommendations / Specifications

International Standards:

- API CF
- Meets quality requirements of major diesel engine manufacturers in the USA, Europe, Japan, and Korea.

#### Typical Characteristics

Properties	Unit	Test Method	Typical Values
Viscosity Grade	-	SAE J300	SAE 50
Density @ 15°C	g/cm <sup>3</sup>	ASTM D4052	0.889
Kinematic Viscosity @ 40°C	cSt	ASTM D445	260.5
Kinematic Viscosity @ 100°C	cSt	ASTM D445	20.5
Viscosity Index	-	ASTM D2270	92
Flash Point (COC)	°C	ASTM D92	251
Pour Point	°C	ASTM D97	-9
Total Base Number	mg KOH/g	ASTM D2896	7.93
Evaporation Loss	%wt.	ASTM D5800	4.2

- Note: The typical characteristics shown in this document are representative of current production. While future production will conform to MD Oils specifications, variations in these characteristics may occur within normal manufacturing tolerances.
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MD  Oils®

 الزيت  
الهيدروليكية  
Hydraulic oils

## MD-Oils Hydraulic Oils:

MD Oils Hydraulic Oils are specially developed to meet the demanding requirements of heavy machinery, industrial systems, and high-performance hydraulic equipment.

These oils provide excellent anti-wear protection, thermal stability, oxidation resistance, and efficient power transmission to ensure smooth and reliable hydraulic system operation.

They are suitable for mobile and stationary hydraulic systems, presses, injection molding machines, industrial tools, air compressors, and equipment operating under severe conditions.

## زيوت هيدروليكية من MD-Oils:

تم تطوير الزيوت الهيدروليكية من MD Oils خصيصًا لتلبية المتطلبات العالية للآلات الثقيلة، والأنظمة الصناعية، والمعدات الهيدروليكية عالية الأداء.

توفر هذه الزيوت حماية ممتازة ضد التآكل، وثباتًا حراريًا عاليًا، ومقاومة قوية للأكسدة، وكفاءة عالية في نقل الطاقة لضمان تشغيل سلس وموثوق للأنظمة الهيدروليكية.

وهي مناسبة للأنظمة الهيدروليكية الثابتة والمتحركة، والمكابس، وآلات الحقن، والمعدات الصناعية، وضواغط الهواء، والمعدات العاملة تحت ظروف تشغيل شديدة.

# Hydraulic Oil ISO AW 37



MD Oils Hydraulic Oil AW 37 is a premium anti-wear hydraulic oil designed for hydraulic systems requiring excellent fluidity and reliable protection under medium operating conditions.

It provides strong oxidation resistance, anti-rust protection, superior demulsibility, and stable performance for hydraulic pumps, valves, and industrial machinery.

Its balanced viscosity ensures efficient operation, reduced maintenance costs, and longer equipment life.

زيت MD Oils Hydraulic Oil AW 37 هو زيت هيدروليكي عالي الجودة مضاد للتآكل ومصمم للأنظمة الهيدروليكية التي تتطلب سيولة ممتازة وحماية موثوقة في ظروف التشغيل المتوسطة. يوفر مقاومة قوية للأكسدة، وحماية ضد الصدأ، وفصلاً ممتازاً للماء، وأداة ثابتاً للمضخات الهيدروليكية، والصمامات، والمعدات الصناعية.

تضمن لزوجته المتوازنة كفاءة تشغيل عالية، وتقليل تكاليف الصيانة، وإطالة عمر المعدات.

## Technical Data Sheet (TDS)

### MD Oils Hydraulic Oil AW-37

### Premium Anti-Wear Hydraulic Oil

#### DESCRIPTION

- MD Oils Hydraulic Oil AW-37 is a premium high-performance anti-wear hydraulic fluid formulated with high-quality base oils and advanced additive technology. It is designed for use in high-pressure hydraulic systems operating under moderate to severe service conditions in industrial and mobile equipment applications.

#### APPLICATIONS

- MD Oils Hydraulic Oil AW-37 is suitable for use in a wide range of industrial and mobile hydraulic applications. It is recommended for high-speed and high-pressure hydraulic systems operating in colder environments or applications requiring rapid hydraulic response, including precision machine tools, servo valves, lightly loaded presses, high-speed spindles, and industrial hydraulic equipment operating under moderate service conditions.

#### Performance Features and Benefits

- Excellent wear protection for hydraulic pumps and precision components.
- Reliable oxidation and thermal stability under demanding operating conditions.
- Fast hydraulic response and efficient power transmission at moderate temperatures.
- Outstanding anti-foam and rapid air release properties.
- Excellent rust and corrosion protection
- Excellent water separation characteristics for improved system reliability.
- Helps reduce equipment wear, maintenance costs, and operational downtime.

#### Recommendations / Specifications

- Meets or exceeds the requirements of:
- DIN 51524-2 (HM); DIN 51524-3 (HV); ISO 11158 (HM, HV); ASTM D6158 (HM, HV); GB 11118.1-2011 (L-HL, L-HM, L-HV, L-HS); SAE MS 1004
- Bosch Rexroth RDE 90235; Parker (formerly Denison) HF-0, HF-1, HF-2 (HM, HV); Eaton E-FDGN-TB002-E; Fives P68, P69, P70 (HM, HV)
- AIST 126, 127; SEB 181222; GM LS-2
- JCMAS P041 HK Hydraulic specification

#### Typical Characteristics

Properties	Unit	Test Method	Typical Values
ISO Viscosity Grade	-	ISO 3448	37
Appearance	-	Visual	Bright & Clear
Density @ 15°C	g/cm <sup>3</sup>	ASTM D4052	0.881
Kinematic Viscosity @ 40°C	mm <sup>2</sup> /s	ASTM D445	37.44
Kinematic Viscosity @ 100°C	mm <sup>2</sup> /s	ASTM D445	6.02
Viscosity Index	-	ASTM D2270	104
Flash Point (COC)	°C	ASTM D92	221
Pour Point	°C	ASTM D97	-30
Demulsibility @ 54 °C	min	ASTM D1401	40-40-0 (11min)
Foaming Characteristics Sequence I	mL	ASTM D892	0/0
Copper strip corrosion, 3 hrs @ 100°C	-	ASTM D130	1B
Rust protection (Procedure B)	-	ASTM D665	PASS

- Note:** The typical characteristics shown in this document are representative of current production. While future production will conform to MD Oils specifications, variations in these characteristics may occur within normal manufacturing tolerances.
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# Hydraulic Oil ISO AW 46



MD Oils Hydraulic Oil AW 46 is a high-performance anti-wear hydraulic oil formulated for industrial and mobile hydraulic systems operating under demanding conditions. It ensures excellent lubrication, thermal stability, corrosion protection, and outstanding filtration performance even in the presence of water contamination. This product supports system efficiency, protects sensitive hydraulic components, and improves operational reliability.

زيت MD Oils Hydraulic Oil AW 46 هو زيت هيدروليكي عالي الأداء ومضاد للتآكل، تم تطويره للأنظمة الهيدروليكية الصناعية والمتحركة العاملة تحت ظروف تشغيل صعبة. يوفر تشحيمًا ممتازًا، وثباتًا حراريًا عاليًا، وحماية ضد التآكل، وأداء ترشيحًا متميزًا حتى في وجود تلوث بالماء. يساعد هذا المنتج على رفع كفاءة النظام، وحماية المكونات الهيدروليكية الحساسة، وتحسين الاعتمادية التشغيلية.



# Technical Data Sheet (TDS)

## MD Oils Hydraulic Oil AW-46

### Premium Anti-Wear Hydraulic Oil

#### DESCRIPTION

MD Oils Hydraulic Oil AW-46 is a premium high-performance anti-wear hydraulic fluid formulated with high-quality base oils and advanced additive technology. It is designed for use in high-pressure hydraulic systems operating under moderate to severe service conditions in industrial and mobile equipment applications.

#### APPLICATIONS

MD Oils Hydraulic Oil AW-46 is recommended for use in a wide range of hydraulic systems operating under moderate ambient temperature conditions requiring ISO VG 46 viscosity grade. It is suitable for standard industrial plant equipment, injection molding machines, and heavy-duty mobile equipment such as excavators, cranes, and loaders. The product is also suitable for hydraulic vane, piston, and gear pumps, industrial hydraulic systems, machine tools, hydraulic presses, construction equipment, agricultural machinery, and other mobile hydraulic applications requiring reliable anti-wear protection and consistent performance.

#### Performance Features and Benefits

- Exceptional anti-wear protection provided by advanced additives forming a durable protective film, extending the service life of high-pressure pumps and critical components while reducing wear.
- Outstanding thermal and oxidation stability, preventing sludge and deposit formation and supporting extended oil service life and drain intervals.
- Superior water separation (Demulsibility), effectively protecting against rust, emulsion formation, and valve sticking in humid operating conditions.
- Excellent air release and foam resistance, ensuring smooth and efficient hydraulic operation while preventing cavitation and pump damage.
- Excellent filterability even under minor contamination, helping maintain system cleanliness and reduce maintenance downtime.
- Effective corrosion protection for both ferrous and non-ferrous metals, ensuring reliable and consistent system performance under demanding conditions.
- Consistent hydraulic performance, maintaining high efficiency and stable operation under severe and continuous working conditions.

#### Recommendations / Specifications: Meets or exceeds the requirements of:

- DIN 51524-2 (HM); DIN 51524-3 (HV); ISO 11158 (HM, HV); ASTM D6158 (HM, HV); GB 11118.1-2011 (L-HL, L-HM, L-HV, L-HS); SAE MS 1004
- Bosch Rexroth RDE 90235; Parker (formerly Denison) HF-0, HF-1, HF-2 (HM, HV); Eaton E-FDGN-TB002-E; Fives P68, P69, P70 (HM, HV)
- AIST 126, 127; SEB 181222; GM LS-2
- JCMAS P041 HK Hydraulic specification

#### Typical Characteristics

Properties	Unit	Test Method	Typical Values
ISO Viscosity Grade	-	ISO 3448	46
Appearance	-	Visual	Bright & Clear
Density @ 15°C	g/cm <sup>3</sup>	ASTM D4052	0.882
Kinematic Viscosity @ 40°C	mm <sup>2</sup> /s	ASTM D445	46.88
Kinematic Viscosity @ 100°C	mm <sup>2</sup> /s	ASTM D445	6.99
Viscosity Index	-	ASTM D2270	105
Flash Point (COC)	°C	ASTM D92	226
Pour Point	°C	ASTM D97	-28
Demulsibility @ 54 °C	min	ASTM D1401	40-40-0 (12min)
Foaming Characteristics Sequence I	mL	ASTM D892	0/0
Copper strip corrosion, 3 hrs @ 100°C	-	ASTM D130	1B
Rust protection (Procedure B)	-	ASTM D665	PASS

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MD  Oils.

# Hydraulic Oil ISO AW 68



MD Oils Hydraulic Oil AW 68 is a supreme performance anti-wear hydraulic oil designed for high-load hydraulic systems operating under severe industrial environments. It offers exceptional film strength, oxidation resistance, rust prevention, and excellent water separation properties for long-lasting equipment protection. Its formulation helps reduce breakdowns, improve machine productivity, and ensure maximum hydraulic system efficiency.

زيت MD Oils Hydraulic Oil AW 68 هو زيت هيدروليكي عالي الأداء ومضاد للتآكل، مصمم للأنظمة الهيدروليكية ذات الأحمال العالية والبيئات الصناعية القاسية. يوفر قوة فيلم زيتية استثنائية، ومقاومة عالية للأكسدة، وحماية ضد الصدأ، وخصائص ممتازة لفصل الماء لضمان حماية طويلة الأمد للمعدات. تساعد تركيبته على تقليل الأعطال، وتحسين إنتاجية المعدات، وضمان أعلى كفاءة للأنظمة الهيدروليكية.



## Technical Data Sheet (TDS) MD Oils Hydraulic Oil AW-68 Premium Anti-Wear Hydraulic Oil

### DESCRIPTION

MD Oils Hydraulic Oil AW-68 is a premium high-performance anti-wear hydraulic fluid formulated with high-quality base oils and advanced additive technology. It is engineered for severe-duty hydraulic systems operating under high loads and elevated temperatures. Its advanced formulation ensures consistent power transmission and robust protection across demanding industrial and mobile applications.

### APPLICATIONS

MD Oils Hydraulic Oil AW-68 is recommended for heavily loaded hydraulic systems operating under high temperatures and severe service conditions in industrial, construction, mining, marine, and heavy-duty mobile equipment applications. It is particularly suitable for large presses, heavy industrial machinery, and hydraulicsystems requiring a thicker lubricating film and enhanced load-carrying performance.

### Performance Features and Benefits

- **Exceptional Anti-Wear Protection:** Significantly reduces wear in high-pressure pumps and components, extending equipment service life.
- **Outstanding Thermal & Oxidation Stability:** Resists thermal degradation and oxidation at elevated temperatures, minimizing sludge formation and supporting longer oil drain intervals.
- **Optimized Film Strength & Load Capacity:** Maintains a durable lubricating film, delivering superior load-carrying performance in heavy-duty applications such as large presses, mining, and construction equipment.
- **Advanced Air Release & Anti-Foaming Properties:** Prevents pump cavitation and ensures smooth, stable, and responsive hydraulic system operation under severe conditions.
- **Robust Multi-Metal Protection:** Provides effective rust and corrosion protection for internal components, even in humid, marine, and harsh industrial environments.

### Recommendations / Specifications:

 Meets or exceeds the requirements of:

- DIN 51524-2 (HM); DIN 51524-3 (HV); ISO 11158 (HM, HV); ASTM D6158 (HM, HV); GB 11118.1-2011 (L-HL, L-HM, L-HV, L-HS); SAE MS 1004
- Bosch Rexroth RDE 90235; Parker (formerly Denison) HF-0, HF-1, HF-2 (HM, HV); Eaton E-FDGN-TB002-E; Fives P68, P69, P70 (HM, HV)
- AIST 126, 127; SEB 181222; GM LS-2
- JCMAS P041 HK Hydraulic specification

### Typical Characteristics

Properties	Unit	Test Method	Typical Values
ISO Viscosity Grade	-	ISO 3448	68
Appearance	-	Visual	Bright & Clear
Density @ 15°C	g/cm <sup>3</sup>	ASTM D4052	0.887
Kinematic Viscosity @ 40°C	mm <sup>2</sup> /s	ASTM D445	68.83
Kinematic Viscosity @ 100°C	mm <sup>2</sup> /s	ASTM D445	8.92
Viscosity Index	-	ASTM D2270	103
Flash Point (COC)	°C	ASTM D92	242
Pour Point	°C	ASTM D97	-24
Demulsibility @ 54 °C	min	ASTM D1401	40-40-0 (11min)
Foaming Characteristics Sequence I	mL	ASTM D892	0/0
Copper strip corrosion, 3 hrs @ 100°C	-	ASTM D130	1B
Rust protection (Procedure B)	-	ASTM D665	PASS

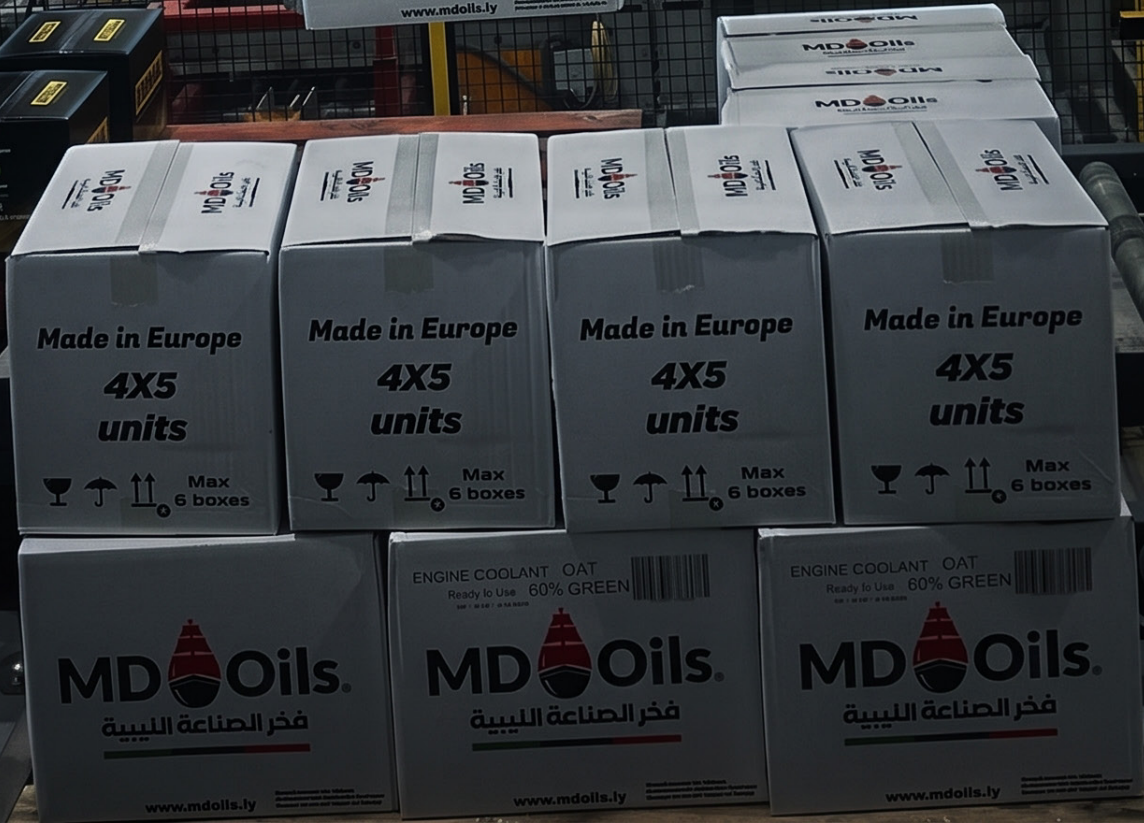
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# مياه

# التبريد

# COOLANT

# ANTIFREEZE



# COOLANT/ANTIFREEZE

## 30% OAT



## Technical Data Sheet (TDS)

### MD Oils Coolant/Antifreeze 30% OAT

#### DESCRIPTION

MD Oils Coolant/Antifreeze 30% OAT is a premium, ready-to-use antifreeze formulated with ethylene glycol and advanced Organic Acid Technology (OAT) corrosion inhibitors. Enriched with anti-cavitation, anti-lime, and anti-foam additives, it ensures efficient and long-lasting protection for modern internal combustion engine cooling systems, including aluminum and light alloys. Free from silicates, phosphates, and amines, it provides superior resistance against corrosion, cavitation, and overheating, while guaranteeing extended service life and full compatibility with multi-metal cooling circuits such as the engine, radiator, and water pump.

Mixing with other coolants is not recommended, as this may reduce product quality. So If using MD Oils Coolant/Antifreeze 30% for the first time, ensure that the cooling system has been adequately flushed with clean water

#### APPLICATIONS

- Suitable for all vehicle types and makes including cars, trucks and buses using both petrol and diesel engines.
- Recommended for modern cooling systems requiring OAT-based coolants.
- Compatible with aluminum and multi-metal radiators and water pumps.
- designed for use in engines employing cast iron, aluminum, copper or combinations of these metals used in modern engine designs.

#### - PERFORMANCE FEATURES & BENEFITS

- Long-life protection against corrosion and cavitation.
- Environmentally friendly formulation (free from silicates, phosphates, borates, and amines).
- Prevents scale deposits from hard water, reducing the risk of radiator blockage and restricted coolant circulation
- Prevents scale formation and deposits.
- Extended service life: up to 5 years or 250,000 km.
- Excellent thermal stability and efficient heat transfer.

#### SPECIFICATIONS & APPROVALS

- Meets major international standards:
- UNE 26.361.88 - ASTM D3306 / D4985 - SAE J-1034 - BS 6580 (GB) - CUNA NC 956-16 - JIS K2234 - FVV HEFT R443 - AFNOR R15/601 - KSM 2142 - EMPA (CH)

#### Typical Characteristics

Properties	Unit	Test Method	Typical Values
Appearance	-	Visual	Clear liquid
Color	-	Visual	Red / Green
Odor	-	Sensory	Characteristic
pH at 20°C	-	ASTM D1287	7.5 - 9.5
Density at 20°C	g/cm <sup>3</sup>	ASTM D4052	1.040 - 1.050
Solubility in water	-	-	100% soluble
Reserve Alkalinity (ml HCl N/10)	ml	ASTM D1121	7.2
Freezing Point	°C	ASTM D1177	-18 ± 1
Boiling Point	°C	ASTM D1120	+127

إحصائيات  
**MD Oils**  
**Statistics**





المركز اللوجستي  
وقدرات الإنتاج الضخمة  
Logistics center

# قسم استقبال زيوت الأساس: Base Oils Reception Department

نمتلك بنية تحتية متطورة مخصصة لاستقبال وتخزين زيوت الأساس تضمن هذه السعة الضخمة تأمين مخزون استراتيجي مستدام يتيح لنا تلبية كافة طلبات السوق المحلية والدولية دون انقطاع.

With a huge capacity reaching

بسعة استيعابية هائلة تصل إلى

**1,500,000**  
لتر Liter

# قسم التصنيع والتعبئة: Manufacturing and Packaging Department

نطبق أحدث التقنيات في عمليات التصنيع والتعبئة. بطاقة تشغيلية يعكس التزامنا بالكفاءة العالية وقدرتنا على تزويد قطاع المحركات والمعدات بزيوت ذات جودة عالمية وموثوقية فائقة.

Our annual production capacity reaches

تصل قدرتنا الإنتاجية السنوية إلى

**36,000,000**  
لتر Liter

منظومة التعبئة  
والتصنيع المتكاملة  
Integrated packaging system

# قسم التعبئة والتغليف

## Packaging Department

يضم هذا القسم أربعة خطوط إنتاج متطورة تعمل بتناغم لتغطية كافة الأحجام.

خط 200 لتر  
200-Liter Line

**1,200**

برميل يومياً  
DRM/day

خط 20 لتر  
20-Liter Line

**2,600**

عبوة يومياً  
Jerrycan/day

خط 4 لتر  
4-Liter Line

**10,000**

عبوة يومياً  
Bottle/day

خط 1 لتر  
1-Liter Line

**38,000**

عبوة يومياً  
Bottle/day

# قسم تصنيع عبوات البلاستيك

## Plastic Packaging Manufacturing Department

لتحقيق الاستقلالية وضمان جودة العبوات، نمتلك خطوطاً لتصنيع العبوات بقدرة إنتاجية عالية.

خط 30 و 20 لتر  
30&20-Liter Line

**1,350**

عبوة يومياً  
Jerrycan/day

خط 4 لتر  
4-Liter Line

**4,800**

عبوة يومياً  
Bottle/day

خط 1 لتر  
1-Liter Line

**31,000**

عبوة يومياً  
Bottle/day

مختبر

# MD Oils Laboratory



At MD Oils, our laboratory represents the heart of quality assurance and product development. As part of our continuous pursuit of excellence, we have strategically upgraded our analytical capabilities from 14 to 24 advanced tests.

This transformation reflects our deep commitment to delivering accurate analysis, stronger quality assurance, and complete confidence in every drop of oil we produce.

Through comprehensive physical, chemical, and performance testing, we ensure full compliance with international standards while minimizing error margins and maximizing product reliability and engine protection.

يمثل مختبر MD Oils قلب منظومة الجودة وضمان الأداء، حيث قمنا ضمن سعينا المستمر نحو التميز برفع قدراتنا التحليلية بشكل استراتيجي من 14 إلى 24 اختبارًا متقدمًا.

هذا التطور يعكس التزامنا العميق بتقديم تحليل أكثر دقة، وضمان جودة أقوى، وثقة كاملة في كل قطرة زيت ننتجها.

ومن خلال الفحوصات الفيزيائية والكيميائية واختبارات الأداء الشاملة، نضمن مطابقة منتجاتنا للمعايير العالمية، وتقليل هوامش الخطأ، وتعزيز اعتمادية المنتج وحماية المحركات.

**24**

**اختبار  
TEST**



# القدرات التحليلية لمختبر MD Oils

In our ongoing pursuit of excellence, MD Oils manufacturing laboratory has undergone a strategic upgrade, increasing its analytical capabilities from 14 to 24 advanced tests. This transformation is not merely a quantitative increase; it represents a deep commitment to delivering more accurate analysis, stronger quality assurance, and greater confidence in every drop of oil. Through comprehensive testing (physical, chemical, and performance tests), we ensure our products meet global standards and minimize margins of error, translating numbers into tangible quality that enhances consistent performance and extends engine life.

في إطار سعينا المستمر نحو الريادة، شهد مختبر مصنع MD Oils تطوراً استراتيجياً برفع قدراته التحليلية من 14 إلى 24 اختباراً متقدماً. هذا التحول ليس مجرد زيادة كميّة، بل هو التزام عميق بمنح عملائنا تحليلاً أدق وضمناً أعلى لكل قطرة زيت. من خلال شمولية الفحص (الفيزيائي، الكيميائي، واختبارات الأداء)، نضمن توافق منتجاتنا مع المعايير العالمية وتقليل هوامش الخطأ، لنحول الأرقام إلى جودة ملموسة تعزز ثبات الأداء وتطيل عمر المحركات.

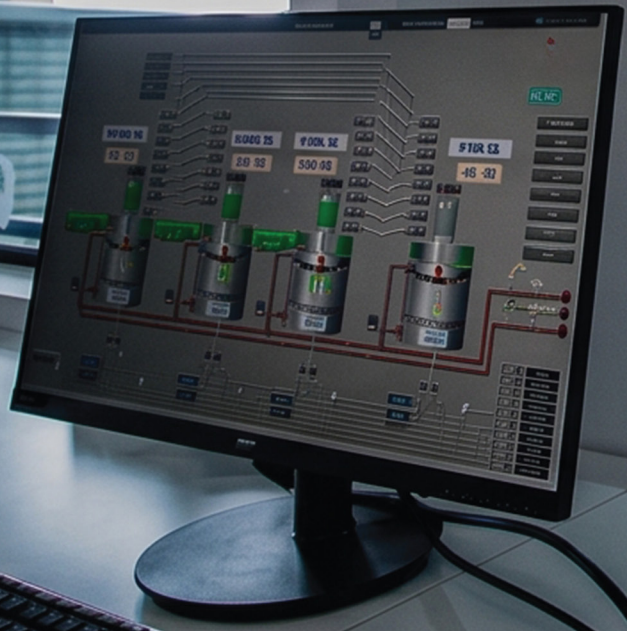
# غرفة التحكم

## CONTROL ROOM

Our control room is equipped with advanced monitoring systems that oversee every stage of the production process in real time. This allows precise formulation control, production consistency, immediate issue detection, and strict adherence to quality standards.

By combining automation with expert supervision, we ensure stable product performance, operational efficiency, and the highest level of manufacturing reliability.

تم تجهيز غرفة التحكم لدينا بأحدث أنظمة المراقبة التي تتابع جميع مراحل الإنتاج بشكل لحظي ودقيق. يساعد ذلك على التحكم الكامل في التركيبة، وضمان ثبات الإنتاج، والاكتشاف الفوري لأي ملاحظات تشغيلية، والالتزام الصارم بمعايير الجودة. ومن خلال الدمج بين الأتمتة والإشراف الفني المتخصص، نضمن ثبات الأداء، وكفاءة التشغيل، وأعلى مستويات الاعتمادية الصناعية.



مخازن

MD Oils  
WAREHOUSE



MD Oils warehouses are designed to ensure full control, safety, and product traceability throughout the entire supply chain.

Our storage facilities are equipped according to international standards, providing ideal environmental conditions that preserve the quality of base oils, additives, and finished products.

Through organized stock management, strict FIFO protocols, and strong safety procedures, we guarantee reliable supply, timely delivery, and absolute product integrity.

تم تصميم مآازن MD Oils لضمان التحكم الكامل، والسلامة، وإمكانية التتبع الكامل للمنتجات عبر جميع مراحل سلسلة الإمداد.

تم تجهيز مرافق التخزين وفق أعلى المعايير العالمية، مما يوفر بيئة مثالية تحافظ على جودة زيوت الأساس، والمواد المضافة، والمنتجات النهائية.

ومن خلال تنظيم دقيق للمخزون، وتطبيق صارم لنظام FIFO، وإجراءات سلامة قوية، نضمن استمرارية التوريد، وسرعة التسليم، وسلامة المنتج.



## Join the MD Oils Journey

With MD Oils, you are not simply choosing lubricants – you are choosing trust, performance, and a vision built on Libyan excellence and global standards.

We believe in building strategic partnerships, supporting industrial growth, and delivering products that create lasting value for customers and markets alike.

Join us in shaping the future of the lubricant industry and be part of a journey driven by quality, innovation, and national pride.

## انضم إلى رحلة MD Oils

مع MD Oils، أنت لا تختار زيوت تشحيم فقط، بل تختار الثقة، والأداء، ورؤية قائمة على التميز الليبي والمعايير العالمية.

نؤمن ببناء شراكات استراتيجية، ودعم النمو الصناعي، وتقديم منتجات تصنع قيمة حقيقية ومستدامة للعملاء والأسواق.

انضم إلينا في رسم مستقبل صناعة زيوت التشحيم، وكن جزءًا من رحلة تقودها الجودة والابتكار والفخر الوطني.



للإستفسارات والطلبات يرجى التواصل  
معنا على الأرقام التالية

الإدارة التجارية: 00218915821111  
قسم المبيعات: 00218915831111 - 00218915861111  
موقعنا الإلكتروني: [www.mdoils.ly](http://www.mdoils.ly)  
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