

**CERTIFICATE OF ANALYSIS № 414**  
**PROTEC Litol-24 M Lubricating Grease**  
 TU U 19.2-37838186-006:2012 zm.1,2

Batch № 414

Manufacturing date: 13.10.25

Batch net weight: 3,521 t

**Product Characteristics**

| №  | Characteristics and units   | Standard limits  | Actual                           | Test method           |
|----|---|--|----------------------------------|-----------------------|
| 1  | Appearance  | Uniform grease with color between light-yellow and brown | Uniform grease with yellow color | GSTU 38.001           |
| 2  | Dropping point, °C, not lower than  | 145  | 148                              | GOST 6793             |
| 3  | Penetration at 25°C, 0,1 mm, in range                                       | 220 - 280  | 275                              | GOST 5346, method V   |
| 4  | Viscosity at -20°C and velocity gradient of 10 s-1, Pa*s (P), not more than | 1000   | 650                              | GOST 7163             |
| 5  | Shear stability at 50°C, Pa (gs/cm2), not lower than                        | 120  | 167                              | GOST 7143, method B   |
| 6  | Colloid stability, %, of separated oil, not more than                       | 16,0   | 11,57                            | GOST 7142, method A   |
| 7  | Metal corrosion   | Pass   | Pass                             | GOST 9.080 and P. 7.4 |
| 8  | Vaporability at 100 °C, %, not more than                                    | 8,0  | 1,0                              | GOST 9566             |
| 9  | Free alkali content NaOH, %, not more than                                  | 0,2  | 0,04                             | GOST 6707 P.7.3       |
| 10 | Water content   | nil  | nil                              | GOST 2477 and P. 7.4  |
| 11 | Mechanical impurities content, %, not more than                             | 0,05   | nil                              | GOST 6479 and P. 7.5  |
| 12 | Four ball EP test machine (20±5°C): scuff index, N (kgs), not less than     | 270  | 330                              | GOST 9490             |
| 13 | Four ball EP test machine (20±5°C): welding load, N (kgs), not less than    | 1 230  | 1 600                            | GOST 9490             |
| 14 | Four ball EP test machine (20±5°C): critical load, N (kgs), not less than   | 610  | 735                              | GOST 9490             |
| 15 | Elastomer of grade 26-44, %: volume change                                  | -8+12  | -1,8                             | GOST 9.030            |

Manufactured by KSM PROTEC LLC

Conclusion: PROTEC Litol-24 M Lubricating Grease lubricating grease sample satisfies the requirement of TU U 19.2-37838186-006:2012 zm.1,2 standard based on characteristics analyzed.

Laboratory technician \_\_\_\_\_

Laboratory head \_\_\_\_\_

Date of issue: 15.10.25





# Shell Ondina X 420

## GtL Medicinal White Oil

Shell Ondina X 420 is a hydrocarbon fluid based on Shell Gas-to-Liquid Technology. It is fully saturated with a high degree of iso paraffinic structures. Shell Ondina X 420 fulfills the stringent international pharmacopoeia purity requirements.

### DESIGNED TO MEET CHALLENGES

#### Specifications, Approvals & Recommendations

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk.

#### Typical Physical Characteristics

| Properties                                     | Method           | Shell Ondina X 420 |
|--|------------------|--------------------|
| Colour (Saybolt)                               | ASTM D156        | +30                |
| Density @ 15°C kg/m <sup>3</sup>               | ISO 12185        | 816                |
| Refractive Index @ 20°C                        | ASTM D1218       | 1.454              |
| Viscosity Index                                | ISO 2909         | 130                |
| Flashpoint COC °C                              | ISO 2592         | 225                |
| Pour Point °C                                  | ISO 3016         | -36                |
| Kinematic Viscosity @ 20°C mm <sup>2</sup> /s  | ISO 3104         | 40                 |
| Kinematic Viscosity @ 40°C mm <sup>2</sup> /s  | ISO 3104         | 18                 |
| Kinematic Viscosity @ 100°C mm <sup>2</sup> /s | ISO 3104         | 4.1                |
| Aniline Point °C                               | ISO 2977         | 120                |
| Evaporation Loss 22h/107°C %m                  | ASTM D927        | 0.12               |
| Noack Volatility 1h/250°C %m                   | ASTM D5800       | 12                 |
| Purity Requirements                            |                  |                    |
| Medicinal White Oil Latest version             | EU Pharm.        | Pass               |
| Medicinal White Oil Latest version             | US Pharm.        | Pass               |
| Medicinal White Oil                            | FDA 178.3620 (a) | Pass               |

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.

#### Health, Safety & Environment

##### • Health and Safety

Shell Ondina X 420 is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet, which can be obtained from your Shell representative.

##### • Protect the Environment

Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

## Additional Information

- **Advice**

Advice on applications not covered here may be obtained from your Shell representative or technical help desks.

## CERTIFICATE OF ANALYSIS

Accreditation No: AZS ISO/IEC 17025:2020/AZ 01.0571.01.21

**From: ALCO LLC**  
3, Vali Mammadov st., Sabail dist.  
AZ1095, Baku, Azerbaijan

**Certificate No.:** 2023101715  
**Date of issue:** 26/10/2023

### Test sample

**Product:** MAXIMUM TAP-15B SAE 90 GL-3  
**Material ID:** M0000186  
**Date of sampling:** 26/10/2023

**Manufacture date:** 26/10/2023  
**Batch number:** 23101715  
**Tank ID:** T41.3

### Test result

**Date of analysis:** 26/10/2023

| Parameters                    | Unit               | Test result    | Limit          | Test method | Conclusion |
|-------------------------------|--------------------|----------------|----------------|-------------|------------|
| Appearance                    | -                  | Bright & Clear | Bright & Clear | Visual      | Pass       |
| Kinematic viscosity at 100 °C | mm <sup>2</sup> /s | 15.73          | 13.5-18.5      | ASTM D445   | Pass       |
| Viscosity index               | -                  | 92             | Min. 90        | ASTM D2270  | Pass       |
| Water content                 | %                  | None           | Max 0.05       | ASTM D95    | Pass       |
| Flash Point, COC              | °C                 | 246            | Min. 185       | ASTM D92    | Pass       |
| Pour Point                    | °C                 | -20            | Max. -20       | ASTM D97    | Pass       |
| Density at 20 °C              | g/cm <sup>3</sup>  | 0.8897         | Test & Report  | ASTM D4052  | Pass       |

**Shelf life:** 5 years from the date of manufacture of the product if proper storage conditions are followed.

This product meets the specification set out in its product data sheet (PDS) and has been manufactured in a facility fully complying with the requirements of Integrated Management System standards.

### Notes & Instructions:

**Notes & Instructions:**

- Tests conducted according to International Standard Test Methods are routinely verified to be in compliance with the latest published versions. Minor changes may be made where they have no material impact on test results and are necessitated by reasons such as safety, environmental standards and method effectiveness.
- This certificate is only valid in its entirety.
- This certificate shall not be reproduced except in full, without the written approval of the laboratory.

**Authorised singnatory**



**Matilda Yusifova**  
**Technologist**







ТОВ «Делфін Індастрі Україна»  
Україна, 15582, Чернігівська обл.,  
Чернігівський р-н, с. Рівнопілля,  
Гомельське шосе 10, Тел: +38 (0462) 697041

Фізико-хімічна лабораторія ТОВ «ДЕЛФІН ІНДАСТРІ УКРАЇНА»

## ПАСПОРТ ЯКОСТІ № 333

Рідина антизамерзаюча універсальна марки А-40  
ТУ У 24.6-32611302-004:2010

ТМ : Аляска ANTIFREEZE-40 blue

Дата виготовлення: 13 жовтня 2023 р.

Виробник: ТОВ «Делфін Індастрі Україна»

Партія: № 13.10.23/2/4

Тара: каністра 10 л.

Кількість: 1008 шт.

| № | Назва показника  | Норма згідно ТУ У 24.6-32611302-004:2010  | Результат аналізу |
|---|--|---|-------------------|
| 1 | Зовнішній вигляд   | Однорідна прозора рідина без механічних домішок. Допускається опалесценція і флуоресценція в разі використання флуоресцентних барвників | Відповідає        |
| 2 | Густина при температурі 20°C, г/мл, не менше   | 1,035   | 1,069             |
| 3 | Температура початку кристалізації, °C, не вище   | Мінус 18  | Мінус 40          |
| 4 | Корозійний вплив на метали, г/(м <sup>2</sup> ×доб.), не більше:<br>мідь<br>латунь<br>сталь<br>чавун<br>алюміній<br>припій | 0,3<br>0,3<br>0,3<br>0,3<br>0,3<br>0,5  | Відповідає        |
| 5 | Спінюваність, об'єм піни, см <sup>3</sup> , не більше<br>стійкість піни, с, не більше                                      | 30<br>3   | 20<br>2,0         |
| 6 | Лужність, см <sup>3</sup> , не менше   | 6,0   | 14,82             |
| 7 | Водневий показник (pH) при 20°C  | від 7,5 до 11,0   | 8,23              |

Паспорт якості дійсний тільки за наявності кольорової сітки.

Продукція за показниками якості відповідає вимогам ТУ У 24.6-32611302-004:2010

Дата виготовлення, номер партії та маса нетто вказані на упаковці.

Гарантійний термін зберігання - 5 років.

Технік-лаборант:



М. П.

Бобрик В.Т.,

(П.І.Б.)

(підпис)

В. о. завідувачого лабораторією: Зайченко А.П.

(П.І.Б.)

(підпис)



ТОВ « АВТО-ХІТ »  
Україна, 02094 ,  
м.Київ,вул.Гетьмана Павла Попуботка буд.52,  
Тел: +38 0635132692

Фізико-хімічна лабораторія ТОВ «АВТО-ХІТ»

**ПАСПОРТ ЯКОСТІ № 677**  
**Рідина антизамерзаюча універсальна марки А-40**  
**ТУ У 24.6-32611302-004:2010**

ТМ : Аляска ANTIFREEZE-40 green  
Дата виготовлення: 17 жовтень 2024 р.  
Виробник: ТОВ « АВТО-ХІТ »  
Партія: № 17.10.24/22/5

Тара: каністра 10 л.  
Кількість: 608 шт.

| № | Назва показника  | Норма згідно ТУ У 24.6-32611302-004:2010  | Результат аналізу |
|---|--|---|-------------------|
| 1 | Зовнішній вигляд   | Однорідна прозора рідина без механічних домішок. Допускається опалесценція і флуоресценція в разі використання флуоресцентних барвників | Відповідає        |
| 2 | Густина при температурі 20°C, г/мл, не менше   | 1,035   | 1,07              |
| 3 | Температура початку кристалізації, °C, не вище   | Мінус 18  | Мінус 40          |
| 4 | Корозійний вплив на метали, г/(м <sup>2</sup> ×доб.), не більше:<br>мідь<br>латунь<br>сталь<br>чавун<br>алюміній<br>припій | <br>0,3<br>0,3<br>0,3<br>0,3<br>0,3<br>0,5  | Відповідає        |
| 5 | Спінюваність, об'єм піни, см <sup>3</sup> , не більше<br>стійкість піни, с, не більше                                      | <br>30<br>3   | <br>20<br>2,0     |
| 6 | Лужність, см <sup>3</sup> , не менше   | 1,0   | 16,43             |
| 7 | Водневий показник (рН) при 20°C  | від 7,5 до 11,0   | 8,49              |

Паспорт якості дійсний тільки за наявності кольорової сітки.

Продукція за показниками якості відповідає вимогам ТУ У 24.6-32611302-004:2010  
Дата виготовлення, номер партії та маса нетто вказані на упаковці.  
Гарантійний термін зберігання - 5 років.

Завідуюча лабораторією:

Бобрик В.Т.  
(П.І.Б.)

(підпис)  
(підпис)

Зайченко А.П.  
(П.І.Б.)





ТОВ « АВТО-ХІТ »  
Україна, 02094 ,  
м.Київ,вул.Гетьмана Павла Попуботка буд.52,  
Тел: +38 0635132692

Фізико-хімічна лабораторія ТОВ «АВТО-ХІТ»

**ПАСПОРТ ЯКОСТІ № 591**  
**Рідина антизамерзаюча універсальна марки А-40**  
**ТУ У 24.6-32611302-004:2010**

ТМ : Аляска ANTIFREEZE-40 red  
Дата виготовлення: 27 вересня 2024 р.  
Виробник: ТОВ « АВТО-ХІТ »  
Партія: № 27.09.24/11/1

Тара: каністра 10 л.  
Кількість: 1415 шт.

| № | Назва показника  | Норма згідно ТУ У 24.6-32611302-004:2010  | Результат аналізу |
|---|--|---|-------------------|
| 1 | Зовнішній вигляд   | Однорідна прозора рідина без механічних домішок. Допускається опалесценція і флуоресценція в разі використання флуоресцентних барвників | Відповідає        |
| 2 | Густина при температурі 20°C, г/мл, не менше   | 1,035   | 1,070             |
| 3 | Температура початку кристалізації, °C, не вище   | Мінус 18  | Мінус 40          |
| 4 | Корозійний вплив на метали, г/(м <sup>2</sup> ×доб.), не більше:<br>мідь<br>латунь<br>сталь<br>чавун<br>алюміній<br>припій | <br>0,3<br>0,3<br>0,3<br>0,3<br>0,3<br>0,5  | Відповідає        |
| 5 | Спінюваність, об'єм піни, см <sup>3</sup> , не більше<br>стійкість піни, с, не більше                                      | <br>30<br>3   | <br>20<br>2,0     |
| 6 | Лужність, см <sup>3</sup> , не менше   | 1,0   | 1,34              |
| 7 | Водневий показник (рН) при 20°C  | від 7,5 до 11,0   | 8,08              |

Паспорт якості дійсний тільки за наявності кольорової сітки.

Продукція за показниками якості відповідає вимогам ТУ У 24.6-32611302-004:2010  
Дата виготовлення, номер партії та маса нетто вказані на упаковці.  
Гарантійний термін зберігання - 5 років.

Заступник лабораторією:



Бобрик В.Т.  
(П.І.Б.)

(підпис)  
(підпис)

Зайченко А.П.  
(П.І.Б.)





Ploiesti, strada Mihai Bravu nr. 278A

[office@axatrade.ro](mailto:office@axatrade.ro)

+40747026417

[www.axatrade.ro](http://www.axatrade.ro)

**Ulei hidraulic HLP 46  
HLP46/T-40**

| No. | Parametri                                 | H46   | Metoda de analiza   |
|-----|---|-------|---------------------|
| 1   | Viscozitate cinematica la 40°C            | 46    | ASTM D445           |
| 2   | Viscozitate cinematica la 100°C           | 6,3   | ASTM D445           |
| 3   | Indice de viscozitate ,min                | 102   | ASTM D2270          |
| 4   | Punct de curgere                          | -6    | ASTM D 97-17B       |
| 5   | Punct de inflamabilitate,<br>COC, °C, min | 210   | ASIM D92-18         |
| 6   | Densitate la 15°C                         | 0,868 | SR EN ISO 3838-2004 |



**AXA Trade Lube**

# Product Data Sheet

## Maximum™ ATF DX-IIIH

Automotive transmission fluid

### Product description

Maximum™ ATF DX-IIIH serves as a premium lubricant, perfectly suited for automatic gearboxes and hydraulic clutches that demand a Dexron III-type fluid. It ensures flawless gearbox performance in challenging conditions and diverse temperatures, providing unparalleled reliability and steadfast consistency

### Application

Maximum™ ATF DX-IIIH is suitable for all automatic transmissions with and without controlled torque converter lockup clutch. It can also be used in hydraulic and power steering systems.

### Features & Benefits

- Exceptional thermal and oxidation stability
- High viscosity index
- Outstanding anti-wear properties
- Favorable friction behavior
- Confident corrosion protection
- Superior low temperature pumpability and circulation
- Excellent foam control
- Better seal compatibility

### Typical Properties

| Property                     | Unit  | Test method | Typical value |
|------------------------------|-------|-------------|---------------|
| Kinematic Viscosity at 100°C | cst   | ASTM D 445  | 8.2           |
| Kinematic Viscosity at 40°C  | cst   | ASTM D 445  | 49.85         |
| Viscosity Index              | -     | ASTM D 2270 | 138           |
| Flash Point (COC)            | °C    | ASTM D 92   | 230           |
| Pour Point                   | °C    | ASTM D 97   | -39           |
| Density at 15°C              | g/cm3 | ASTM D 4052 | 0.869         |

Typical property characteristics are based on current production. Whilst future production will conform to Maximum™ specifications, variations in these characteristics may occur.



## Performance claims

- Allison C4
- Allison TES 389
- GM Dexron IID
- GM Dexron IIIG
- GM Dexron IIH
- GM Dexron TASA (Typ A/Suffix A)
- Voith H55. 6335.XX (G 607)
- MAN 339 Typ. L1, L2
- MAN 339 Typ. Z1
- MAN 339 Typ. V1
- MB 236.1, 236.9
- Volvo CE97340
- Volvo CE97341
- ZF TE-ML 02F
- ZF TE-ML 03D
- ZF TE-ML 05L
- ZF TE-ML 21L
- ZF TE-ML 09
- ZF TE-ML 11A, 11B
- ZF TE-ML 04D
- ZF TE-ML 14A
- ZF TE-ML 17C

## Health, Safety & Environment

### • Health and Safety

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained.

For further guidance on Product Health & Safety refer to the appropriate Safety Data Sheet which can be obtained upon request or through our website: [www.maximumlube.com](http://www.maximumlube.com)

### • Protect the Environment

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

## Available pack sizes

- |                        |                          |
|------------------------|--------------------------|
| • 1 L Canister plastic | • 20 L Canister plastic  |
| • 4 L Canister plastic | • 30 L Canister plastic  |
| • 5 L Canister plastic | • 60 L Drum sheet metal  |
| • 6 L Canister plastic | • 200 L Drum sheet metal |
| • 7 L Canister plastic | • 1000 L Container       |

## Storage

- We recommend to store all packages under cover.
- Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings.
- Products should not be stored above 60 °C, exposed to hot sun or freezing conditions.

## Notes

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by ALCO LLC for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our sales specialists if you require any further information.





# Product Data Sheet

## Maximum™ GuardMax 15W-40 SG/CD

Engine oil

### Product description

Maximum™ GuardMax 15W-40 SG/CD stands as a mineral-derived, versatile, all-season motor oil meticulously engineered to ensure top-tier engine protection and purification. Crafted with high-quality base stocks and an innovative additive system, it guarantees optimal lubrication under a diverse array of operational circumstances.

### Application

Maximum™ GuardMax 15W-40 SG/CD is suitable for use in automotive gasoline and diesel engines where the manufacturer recommends an API SG/CD or earlier specification 15W-40 lubricant.

### Features & Benefits

- Provides excellent protection against wear and extends engine life
- Helps to prevent the formation of deposits and sludge, keeping engines clean and running smoothly
- Protects engine parts against rust and corrosion
- Offers high thermal stability and resistance to oxidation, ensuring long-lasting engine performance

### Typical Properties

| Property                     | Unit     | Test method | Typical value |
|------------------------------|----------|-------------|---------------|
| Kinematic Viscosity at 100°C | cst      | ASTM D 445  | 14.8          |
| Kinematic Viscosity at 40°C  | cst      | ASTM D 445  | 121.4         |
| Viscosity Index              | -        | ASTM D 2270 | 125           |
| Flash Point, COC             | °C       | ASTM D 92   | 230           |
| Pour Point                   | °C       | ASTM D 97   | -27           |
| TBN                          | mg KOH/g | ASTM D 2896 | 4             |
| Sulphated Ash Content        | %        | ASTM D 874  | 0.55          |
| Density at 15°C              | g/ml     | ASTM D 4052 | 0.882         |

Typical property characteristics are based on current production. Whilst future production will conform to Maximum™ specifications, variations in these characteristics may occur.

## Performance claims

- API SG/CD

## Health, Safety & Environment

- **Health and Safety**

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained.

For further guidance on Product Health & Safety refer to the appropriate Safety Data Sheet which can be obtained upon request or through our website: [www.maximumlube.com](http://www.maximumlube.com)

- **Protect the Environment**

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

## Available pack sizes

- |                        |                          |
|------------------------|--------------------------|
| • 1 L Canister plastic | • 20 L Canister plastic  |
| • 4 L Canister plastic | • 30 L Canister plastic  |
| • 5 L Canister plastic | • 60 L Drum sheet metal  |
| • 6 L Canister plastic | • 200 L Drum sheet metal |
| • 7 L Canister plastic | • 1000 L Container       |

## Storage

- We recommend to store all packages under cover.
- Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings.
- Products should not be stored above 60 °C, exposed to hot sun or freezing conditions.



## Notes

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by ALCO LLC for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our sales specialists if you require any further information.



# Product Data Sheet

## Maximum™ M-10G2K

Engine oil

### Product description

Maximum™ M-10G2K stands as a monograde diesel engine oil formulated using premium mineral base oils and a thoughtfully curated additive blend, delivering resilient protection against wear and corrosion. Its versatile applicability extends to a range of off-highway uses, as well as older on-highway vehicles.

### Application

Maximum™ M-10G2K is recommended for high-power naturally aspirated or moderately supercharged diesel engines in automotive vehicles and tractors

### Features & Benefits

- Enhanced acid control system
- Improved detergency characteristics
- Control of high-temperature deposit formation
- Excellent thermal and oxidation stability
- Superior anti-wear protection

### Typical Properties

| Property                     | Unit              | Test method | Typical value |
|------------------------------|-------------------|-------------|---------------|
| Density at 15°C              | g/cm <sup>3</sup> | GOST 3900   | 0.893         |
| Kinematic Viscosity at 100°C | cst               | GOST 33     | 11            |
| Kinematic Viscosity at 40°C  | cst               | GOST 33     | 95            |
| Viscosity Index              | -                 | GOST 25371  | 101           |
| Flash Point (COC)            | °C                | GOST 4333   | 246           |
| Pour Point                   | °C                | GOST 20287  | -18           |

Typical property characteristics are based on current production. Whilst future production will conform to Maximum™ specifications, variations in these characteristics may occur.

## Performance claims

- API CC
- SAE 30

## Health, Safety & Environment

- **Health and Safety**

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained.

For further guidance on Product Health & Safety refer to the appropriate Safety Data Sheet which can be obtained upon request or through our website: [www.maximumlube.com](http://www.maximumlube.com)

- **Protect the Environment**

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

## Available pack sizes

- |                        |                          |
|------------------------|--------------------------|
| • 1 L Canister plastic | • 20 L Canister plastic  |
| • 4 L Canister plastic | • 30 L Canister plastic  |
| • 5 L Canister plastic | • 60 L Drum sheet metal  |
| • 6 L Canister plastic | • 200 L Drum sheet metal |
| • 7 L Canister plastic | • 1000 L Container       |

## Storage

- We recommend to store all packages under cover.
- Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings.
- Products should not be stored above 60 °C, exposed to hot sun or freezing conditions.

## Notes

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by ALCO LLC for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our sales specialists if you require any further information.





# Product Data Sheet

## Maximum™ T-1500

Transformer oil

### Product description

Maximum™ T-1500 stands as a top-tier, mineral-based transformer oil meticulously refined for optimal performance and protection of high-voltage electrical equipment. Crafted using selective hydrogenation and purification techniques on sulfur-paraffinic oils, it exhibits outstanding electrical insulation, excellent heat transmission, and remarkable long-term resistance to oxidation.

### Application

Maximum™ T-1500 is recommended for use in electrical transformers, circuit breakers, switchgear, and other electrical equipment where high performance insulating oil is required. It is particularly compatible with power transformers operating at high temperatures or under heavy loads.

### Features & Benefits

- Excellent oxidation stability for longer service life
- High dielectric strength for enhanced insulation properties
- Low power loss for increased efficiency
- Superior heat transfer properties for efficient cooling
- Exceptional moisture resistance for reliable performance in damp conditions

### Typical Properties

| Property                              | Unit     | Test method | Typical value |
|---------------------------------------|----------|-------------|---------------|
| Kinematic Viscosity                   | cst      | ASTM D 445  | -             |
| - at -30°C                            | cst      | ASTM D 445  | 1100          |
| - at 20°C                             | cst      | ASTM D 445  | 20            |
| - at 50°C                             | cst      | ASTM D 445  | 7.5           |
| - at 100 °C                           | cst      | ASTM D 445  | 2.5           |
| Flash Point                           | °C       | ASTM D 93   | 145           |
| Pour Point                            | °C       | ASTM D 97   | -45           |
| TAN                                   | mg KOH/g | ASTM D 974  | 0.005         |
| Dielectric dissipation factor at 90°C | %        | IEC 60247   | 0.2           |
| Dielectric Breakdown Voltage          | kV       | IEC 60156   | -             |
| - as delivered                        | kV       | IEC 60156   | 30            |
| - after treatment                     | kV       | IEC 60156   | 60            |
| Density at 20°C                       | g/cm3    | ASTM D 4052 | 0.883         |

Typical property characteristics are based on current production. Whilst future production will conform to Maximum™ specifications, variations in these characteristics may occur.

## Performance claims

- GOST 982-80

## Health, Safety & Environment

- **Health and Safety**

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained.

For further guidance on Product Health & Safety refer to the appropriate Safety Data Sheet which can be obtained upon request or through our website: [www.maximumlube.com](http://www.maximumlube.com)

- **Protect the Environment**

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

## Available pack sizes

- |                        |                          |
|------------------------|--------------------------|
| • 1 L Canister plastic | • 20 L Canister plastic  |
| • 4 L Canister plastic | • 30 L Canister plastic  |
| • 5 L Canister plastic | • 60 L Drum sheet metal  |
| • 6 L Canister plastic | • 200 L Drum sheet metal |
| • 7 L Canister plastic | • 1000 L Container       |

## Storage

- We recommend to store all packages under cover.
- Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings.
- Products should not be stored above 60 °C, exposed to hot sun or freezing conditions.

## Notes

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by ALCO LLC for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our sales specialists if you require any further information.



# Product Data Sheet

## Maximum™ TransMax 80W-90 GL-4

Transmission oil

### Product description

Maximum™ TransMax 80W-90 GL-4 stands as a multi-seasonal gear oil with versatility, incorporating high-quality base stocks and an inventive blend of additives. It guarantees extended protection against wear, promoting the durability of equipment and reducing the frequency and expenses associated with maintenance.

### Application

Maximum™ TransMax 80W-90 GL-4 is suitable for manual transmissions, differentials, power takeoff units and final drives found on passenger cars, trucks, and off highway vehicles used in construction, farm, forestry and mining operations.

### Features & Benefits

- Superior thermal and oxidation stability
- Improved low temperature protection
- Excellent resistance for wear, corrosion and foaming
- Better extreme pressure properties

### Typical Properties

| Property                     | Unit  | Test method | Typical value |
|------------------------------|-------|-------------|---------------|
| Density at 15°C              | g/cm³ | ASTM D 4052 | 0.890         |
| Kinematic Viscosity at 100°C | mm²/s | ASTM D 445  | 14.80         |
| Kinematic Viscosity at 40°C  | mm²/s | ASTM D 445  | 157.6         |
| Viscosity Index              | -     | ASTM D 2270 | 92            |
| Flash Point (COC)            | °C    | ASTM D 92   | 240           |
| Pour Point                   | °C    | ASTM D 97   | -18           |

Typical property characteristics are based on current production. Whilst future production will conform to Maximum™ specifications, variations in these characteristics may occur.



## Performance claims

- API GL-4
- MIL-L-2105 D
- ZF TE-ML 08/16A/17A/19A

## Health, Safety & Environment

### • Health and Safety

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained.

For further guidance on Product Health & Safety refer to the appropriate Safety Data Sheet which can be obtained upon request or through our website: [www.maximumlube.com](http://www.maximumlube.com)

### • Protect the Environment

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

## Available pack sizes

- |                        |                          |
|------------------------|--------------------------|
| • 1 L Canister plastic | • 20 L Canister plastic  |
| • 4 L Canister plastic | • 30 L Canister plastic  |
| • 5 L Canister plastic | • 60 L Drum sheet metal  |
| • 6 L Canister plastic | • 200 L Drum sheet metal |
| • 7 L Canister plastic | • 1000 L Container       |

## Storage

- We recommend to store all packages under cover.
- Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings.
- Products should not be stored above 60 °C, exposed to hot sun or freezing conditions.

## Notes

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by ALCO LLC for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our sales specialists if you require any further information.



# Product Data Sheet

## Maximum™ TAD-17

Transmission oil

### Product description

Maximum™ TAD-17 is a versatile all-season mineral gear oil designed for the lubrication of various gear types in vehicles and mobile machinery, including bevel, cylindrical, worm, and hypoid gears. It provides an effective protective shield, ensuring optimal performance and durability by guarding against wear, corrosion, scoring, and other potential damages.

### Application

Maximum™ TAD-17 can be used in manual transmissions, transfer cases, and gearboxes, as well as drive axles with hypoid final drives operating under high loads and at high sliding speeds in gear mesh, where API GL-5 level oil is recommended.

### Features & Benefits

- Features high thermal and oxidative stability
- Offers excellent antiwear properties and reliable corrosion protection
- Prevents foaming, maintaining a strong lubricating oil film
- Sustains performance over long-term use

### Typical Properties

| Property                     | Unit               | Test method | Typical value |
|------------------------------|--------------------|-------------|---------------|
| Density at 15°C              | g/cm <sup>3</sup>  | GOST 3900   | 0.897         |
| Kinematic Viscosity at 100°C | mm <sup>2</sup> /s | GOST 33     | 17.5          |
| Kinematic Viscosity at 40°C  | mm <sup>2</sup> /s | GOST 33     | 181           |
| Viscosity Index              | -                  | GOST 25371  | 103           |
| Flash Point (COC)            | °C                 | GOST 4333   | 220           |
| Pour Point                   | °C                 | GOST 20287  | -30           |

Typical property characteristics are based on current production. Whilst future production will conform to Maximum™ specifications, variations in these characteristics may occur.

## Performance claims

- API GL-5
- SAE 80W-90
- GOST 23652-73

## Health, Safety & Environment

- **Health and Safety**

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained.

For further guidance on Product Health & Safety refer to the appropriate Safety Data Sheet which can be obtained upon request or through our website: [www.maximumlube.com](http://www.maximumlube.com)

- **Protect the Environment**

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

## Available pack sizes

- |                        |                          |
|------------------------|--------------------------|
| • 1 L Canister plastic | • 20 L Canister plastic  |
| • 4 L Canister plastic | • 30 L Canister plastic  |
| • 5 L Canister plastic | • 60 L Drum sheet metal  |
| • 6 L Canister plastic | • 200 L Drum sheet metal |
| • 7 L Canister plastic | • 1000 L Container       |

## Storage

- We recommend to store all packages under cover.
- Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings.
- Products should not be stored above 60 °C, exposed to hot sun or freezing conditions.



## Notes

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by ALCO LLC for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our sales specialists if you require any further information.



## VENOL GREASE LT 4



### CHARAKTERYSTYKA:

Smary Venol Grease LT 4 otrzymywane są na bazie wysokorafinowanego oleju mineralnego zagęszczonego mydlami litowymi kwasu 12-hydroksystearynowego. Zawierają dodatki przeciwutleniające oraz inhibitory korozji.



### ZASTOSOWANIE:

Smary Venol Grease LT 4 przeznaczone są do smarowania łożysk tocznych i ślizgowych, oraz innych węzłów tarcia pracujących w normalnych warunkach pracy, w zakresie temperatur od -30°C do 130°C. Smary te charakteryzują się wysoką stabilnością mechaniczną i są odporne na wymywanie wodą.



### SPECYFIKACJE I NORMY:

|            | Venol Grease LT 41 | Venol Grease LT 42 | Venol Grease LT 43 |
|------------|--------------------|--------------------|--------------------|
| DIN 51502  | K 1 K – 30         | K 2 K – 30         | K 3 K – 30         |
| ISO 6743-9 | L-XCCEA1           | L-XCCEA2           | L-XDCEA3           |



### ZESTAWIENIE TYPOWYCH WŁAŚCIWOŚCI FIZYKOCHEMICZNYCH :

|  | Wartości typowe            |                    |                    |
|--|----------------------------|--------------------|--------------------|
|  | Venol Grease LT 41         | Venol Grease LT 42 | Venol Grease LT 43 |
| Wygląd zewnętrzny w 20°C                           | jednorodny, barwy zielonej |                    |                    |
| Klasa penetracji wg NLGI                           | 1                          | 2                  | 3                  |
| Zagęszczacz  | Mydła Litowe               |                    |                    |
| Penetracja po ugniataniu w temp. 25°C 1/10mm       | 310 - 340                  | 265 - 295          | 220 - 250          |
| Temperatura kroplenia, °C                          | >185                       | >200               | >200               |
| Lepkość oleju bazowego w 40°C mm²/s                | 130                        | 130                | 130                |
| Działanie korodujące na płytce z miedzi 24h, 100°C | 1                          | 1                  | 1                  |

Ze względu na ciągły rozwój produktu, informacje zawarte w niniejszym dokumencie mogą ulec zmianie bez powiadomienia.

ТОВАРИСТВО З ОБМЕЖЕНОЮ  
ВІДПОВІДАЛЬНІСТЮ «ЛЮКАС  
ЛУБРИКАНТС»  
61058, Україна, м. Харків, вул.  
Роллана Ромен, буд.12  
e-mail:  
lukas.lubricants@gmail.com



LIMITED LIABILITY COMPANY  
"LuKaS lubricants"  
12 Rollan Romen Str., Kharkiv,  
Ukraine, 61058  
e-mail:  
lukas.lubricants@gmail.com

## ПАСПОРТ ЯКОСТІ НА ПРОДУКЦІЮ:

### Гальмівна рідина BARS EXTRA DOT-4

Виробник: ТОВ «ЛЮКАС ЛУБРИКАНТС», Україна

Дата виготовлення : січень 2026 р.

Тип тари: пластикові каністри 0,5 л, 1 л.

| №  | Назва показника  | Норма  | Факт  | Метод випробувань                                   |
|----|--|--|---|---|
| 1. | Зовнішній вигляд і колір   | Однорідна прозора рідина                                   | відповідає  | ТУ У 24.6-00174131-168<br>2001 змін №1:2014         |
| 2. | В'язкість кінематична, мм <sup>2</sup> /с:<br>- при (100 ± 0,5) °С, не менше   | 1,5  | 2,2   | ТУ У 24.6-00174131-168<br>2001 змін №1:2014         |
| 3. | Температура кипіння при тиску 101,3 кПа, °С, не менше  | 190  | 212   | ТУ У 24.6-00174131-168<br>2001 змін №1:2014         |
| 4. | Температура кипіння зволоженої рідини при тиску 101,3 кПа, °С, не менше  | 155  | 233   | ТУ У 24.6-00174131-168<br>2001 змін №1:2014         |
| 5. | Стабільність при високій температурі, °С, не більше  | 3  | 1   | ТУ У 24.6-00174131-168<br>2001 змін №1:2014         |
| 6. | Взаємодія з металами при температурі (100 ± 2) °С протягом (120 ± 2) год.:<br>а) зміна маси пластинок, мг/см <sup>2</sup> , не більше<br>- біла жерсть<br>- сталь Ст10<br>- алюмінієвий сплав Д-16<br>- чавун СЧ 18-35<br>- латунь Л-63<br>- мідь М-1<br>б) значення рН після випробувань, одиниць рН, у межах | <br><br>0,2<br>0,2<br>0,1<br>0,2<br>0,4<br>0,4<br>7,0-11,5 | <br><br>0,11<br>0,09<br>0,09<br>0,11<br>0,22<br>0,22<br>9,6 | <br><br>ТУ У 24.6-00174131-168<br>2001 змін №1:2014 |
| 7. | Масова частка механічних домішок:  | відсутність  | відсутність   | ТУ У 24.6-00174131-168<br>2001 змін №1:2014         |

Гарантійний термін зберігання – 5 років

м.п.

Головний технолог



Любін Р.Г.