



**AZMOL**

BRITISH  
PETROCHEMICALS

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## RECOMMENDATIONS FOR SELECTION OF MOTOR OILS



*Motor oils classification API was created and improved in association of API (American Petroleum Institute) and ASTM (American Society for Testing and Materials). It defines limits of different parameters, like purity of piston, wear of piston rings.*



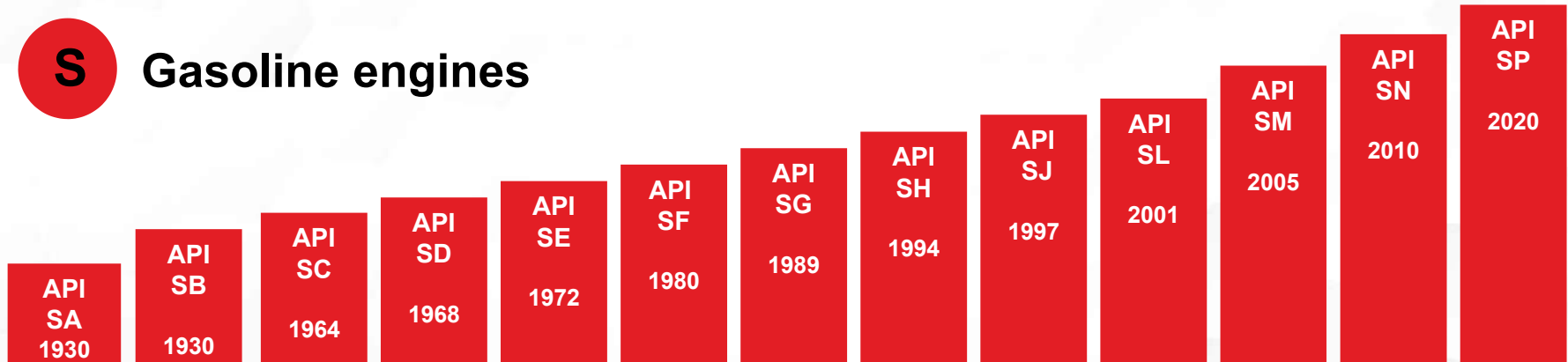
*ACEA (Association des Constructeurs Européens d'Automobiles) created motor oils classification in accordance to requirements of modern European cars and operating conditions. ACEA classification define three main groups of motor oils depending on the engine type: gasoline engines, diesel engines of passenger cars and heavy vehicles diesel engines.*



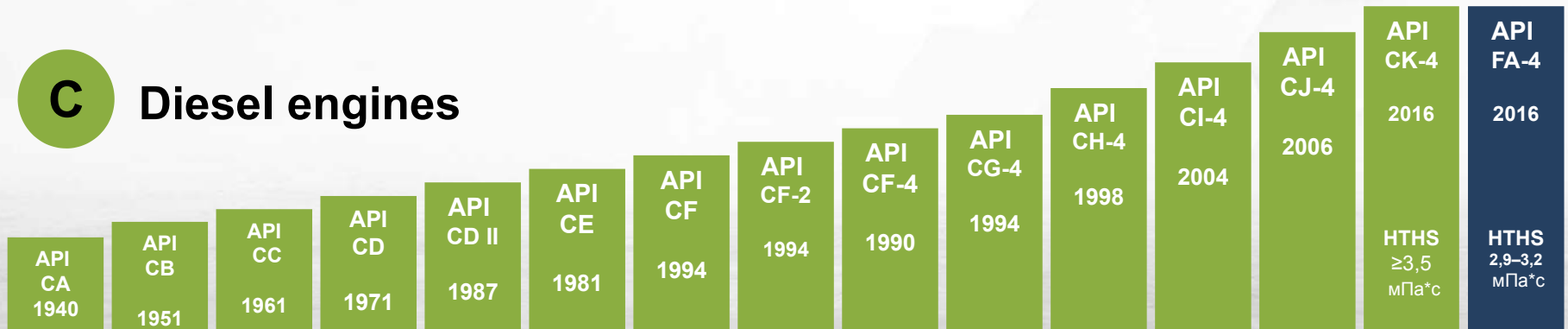
*SAE J-300DEC99 classification by Society of Automotive Engineers of US. SAE classification define application of oil in internal combustion engine adjusted to environment temperature.*

## Classification of maintenance of engines

### S Gasoline engines



### C Diesel engines

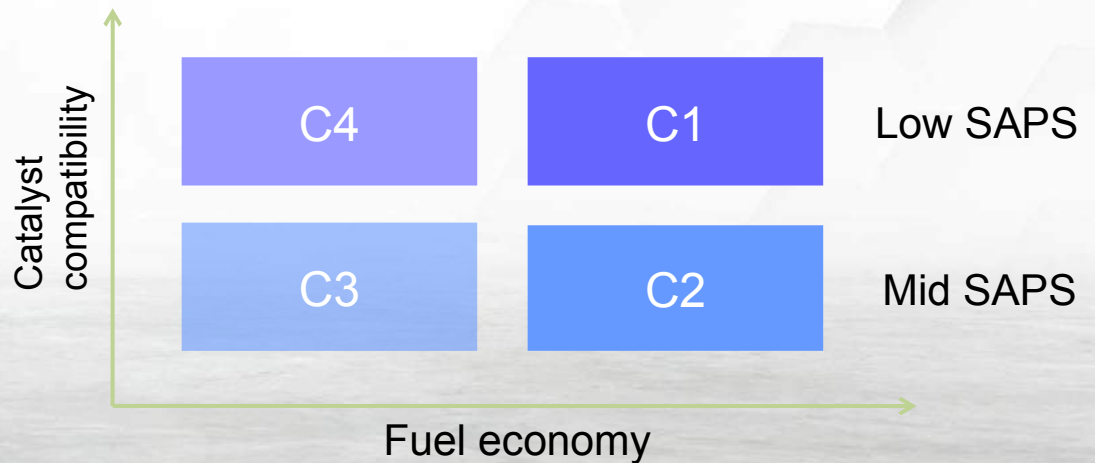
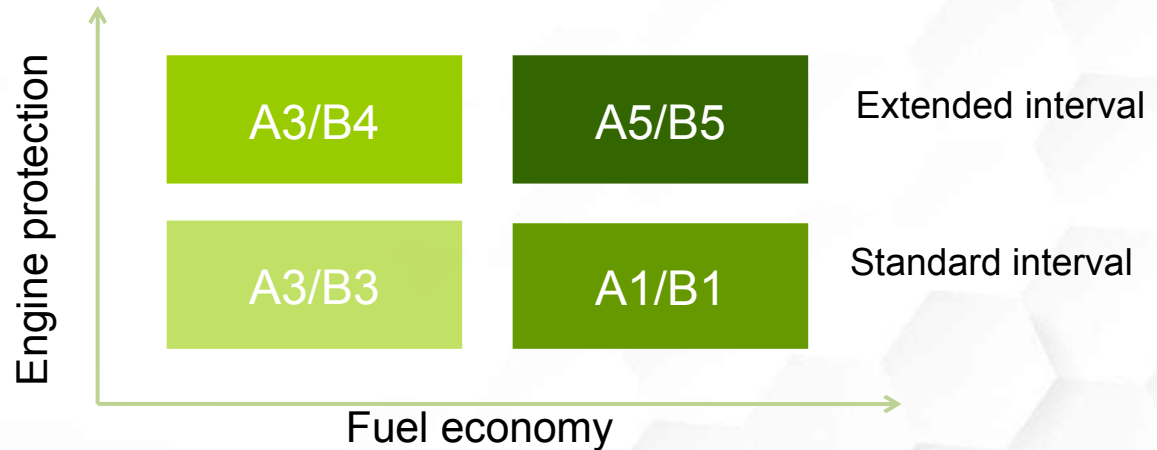


## Classification of maintenance of engines

**A** Gasoline engines

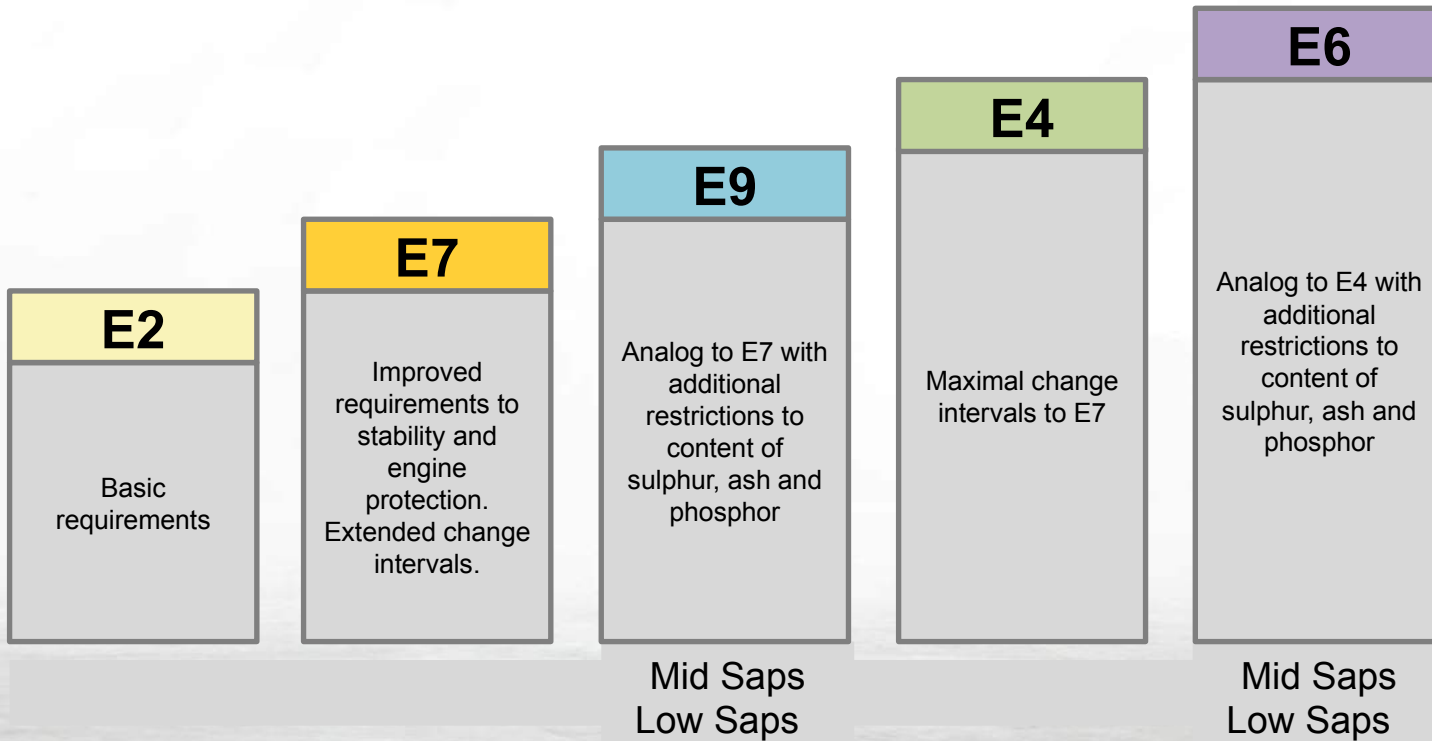
**B** Diesel engines

**C** Catalyst compatibility



## Classification of maintenance of engines

### E Diesel engines





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## PRODUCTS CATEGORIES

**PVL**

Passenger Vehicles  
Lubricants



**CVL**

Commercial Vehicles  
Lubricants



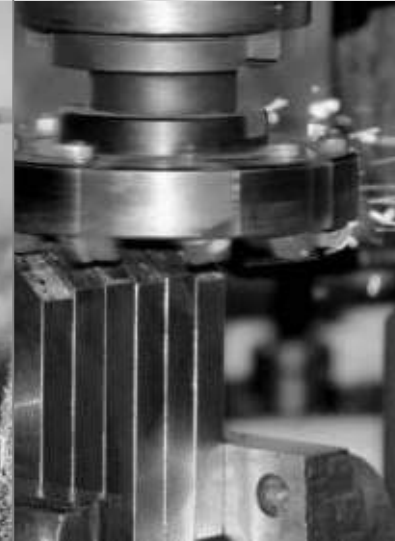
**AGRI**

Lubricants for  
Agricultural sector



**IND**

Industrial sector  
Lubricants



**GREASES**





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PETROCHEMICALS**  
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## PRODUCTS CATEGORIES

**PVL**

Passenger Vehicles  
Lubricants



**CVL**

Commercial Vehicles  
Lubricants



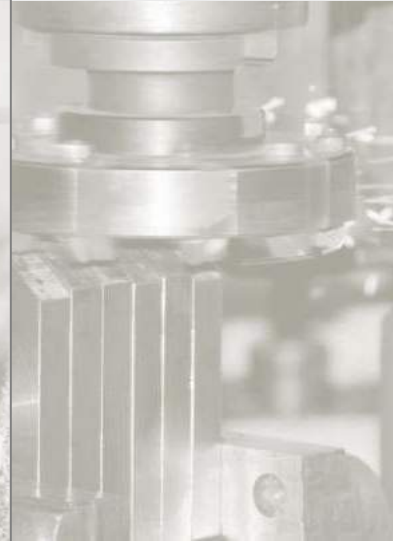
**AGRI**

Lubricants for  
Agricultural sector



**IND**

Industrial sector  
Lubricants



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# MOTOR OILS for GASOLINE ENGINES

## AZMOL ULTRA PLUS

### Ultra Plus 5W-30 504.00/507.00

SAE 5W-30  
ACEA C3  
API SN/CF

### Ultra Plus 0W-30

SAE 0W-30  
ACEA A5/B5  
API SN/CF

### Ultra Plus 0W-40

SAE 0W-40  
ACEA A3/B4  
API SN/CF

**AZMOL**





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# AZMOL Ultra Plus 5W-30 504/507



**Motor oil of AZMOL-BP  
recommended by  
Volkswagen Aktiengesellschaft**



**AZMOL**

## VOLKSWAGEN

AKTIENGESELLSCHAFT

VOLKSWAGEN AKTIENGESELLSCHAFT 38439 WOLFSBURG DEUTSCHLAND

LLC "Ukrainian-British joint venture  
AZMOL-British Petrochemicals"  
Ms./Mr. Ilyia Kataev  
2 Yaroslava Mudrogo str.,  
Berdyansk  
Ukraine

IK  
01.02.2019  
1437-elf-ak  
9-43156  
9-32371  
E-MAIL

engem.de approval.vw@v-w@volkswagen.de

29.05.2019

IHRE ZEICHEN  
IHRE NACHRICHT  
UNSERE ZEICHEN  
DURCHWAHL  
TELEFAX  
E-MAIL

DATUM

### Engine Oil

Dear Ms./Mr. Kataev,

Analysis of the engine oil

**AZMOL Ultra Plus SAE 5W-30 (Oil-Code: IME 1312267-A)**

has shown that product in question meets the requirements in accordance with VW Standard 504 00 and VW Standard 507 00. This engine oil is therefore suitable for use in our vehicles with LongLife Service (petrol and diesel engines, including diesel engines with particulate traps without fuel borne catalyst) in accordance with the Owner's Literature for our products.

So that it is clear to both customers and workshops that this approval has been granted, containers should state:

**"approved under VW Standard 504 00 and VW Standard 507 00"**

This approval is only valid for the following production site:

**LLC "JV AZMOL-BP", Yaroslava Mudrogo str., Building 2, 71114  
Berdyansk, Ukraine**

Please note that this approval expires after 36 months, at which point compliance with the then valid VW standards must be verified again.

Yours sincerely,

Dr. Eifraith

Dr. Kossmehl

VOLKSWAGEN AKTIENGESELLSCHAFT  
38439 WOLFSBURG  
DEUTSCHLAND  
TELEFON +49 5361 9-0  
TELEFAX +49 5361 9-26382  
VW@VOLKSWAGEN.DE

VORSITZENDER DES AUFSICHTSRATS:  
HANS DIETER PÖTSCH

VORSTAND:  
HERBERT DIESS –  
VORSITZENDER

OLIVER BLUME  
GÜNNAK XILIAN  
ANDREAS BENSCHLER  
ABRAHAM SCHOT  
STEFAN SOMMER  
HILTRUD O. WERNER  
FRANK WITTEK

VOLKSWAGEN AKTIENGESELLSCHAFT  
SITZ: WOLFSBURG  
AMTSGERICHT BRAUNSCHWEIG  
HRB 100484

We are pointing out that this letter only addresses whether product reviewed meets the VW standards. We do not address or express any view on compliance with national chemical inventories, the marketability in any sales market or the compliance with local chemical substances laws or other applicable laws. Responsibility for compliance with such legal requirements falls to the engine oil maker, importer or distributor.

# MOTOR OILS for GASOLINE ENGINES

## AZMOL LEADER PLUS

### Leader Plus 5W-40

SAE 5W-40  
ACEA A3/B4  
API SN/CF



### Leader Plus 10W-40

SAE 10W-40  
ACEA A3/B4  
API SN/CF





# MOTOR OILS for GASOLINE ENGINES

## **AZMOL FAVORITE PLUS**

### **Favorite Plus 10W-30**

SAE 10W-30

ACEA A3/B3

API SL/CF

### **Favorite Plus 10W-40**

SAE 10W-40

ACEA A3/B3

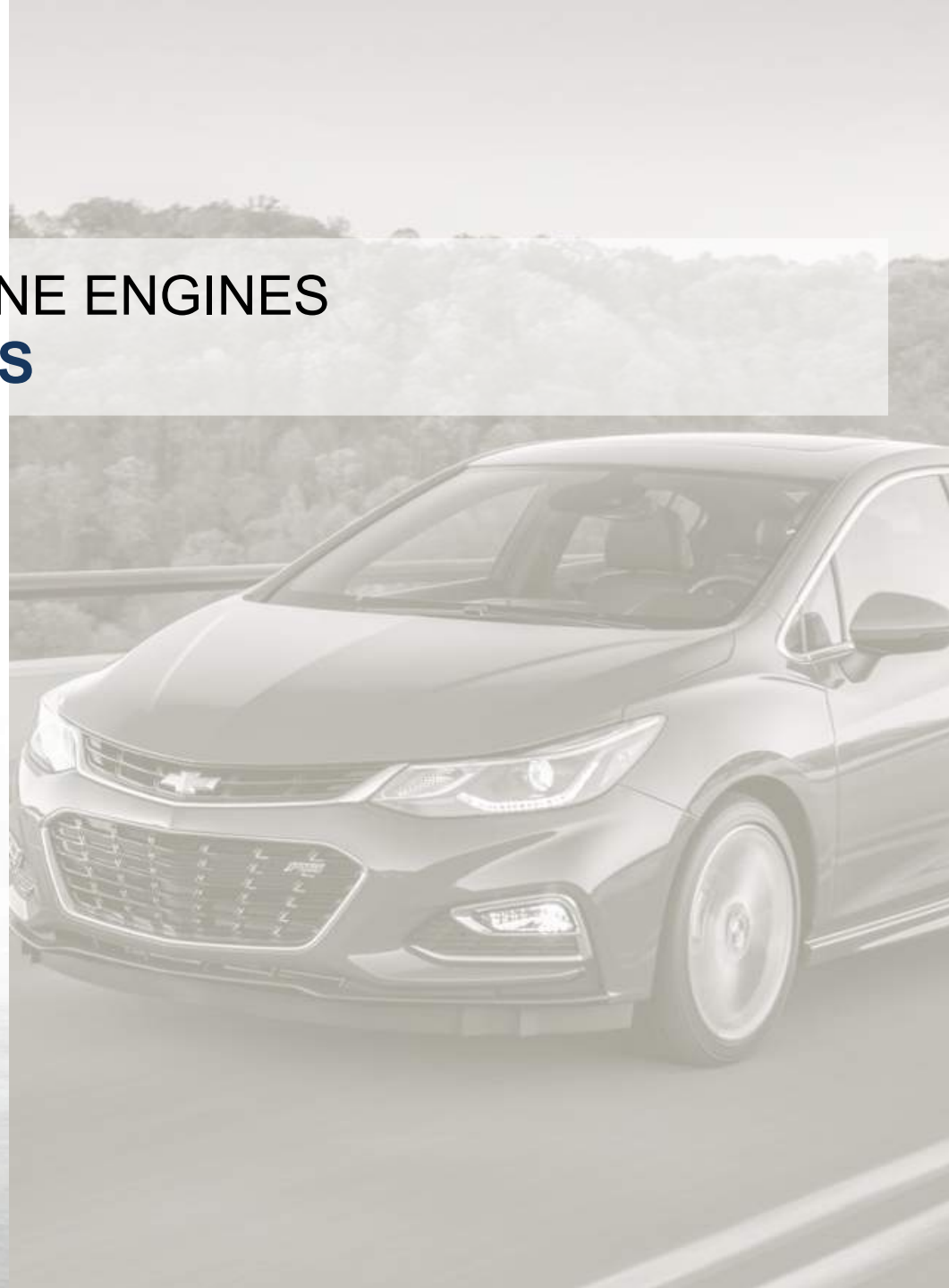
API SL/CF

### **Favorite Plus 20W-50**

SAE 20W-50

ACEA A3/B3

API SL/CF





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## PRODUCTS CATEGORIES

**PVL**

Passenger Veh  
Lubricants



**CVL**

Commercial Vehicles  
Lubricants



**AGRI**

Lubricants for  
Agricultural sector



**IND**

Industrial sector  
Lubricants



**GREASES**





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# MOTOR OILS for DIESEL ENGINES

## **AZMOL FAMULA X**

### **Famula X 5W-40**

SAE 5W-40  
ACEA E9  
API CJ-4/SN

### **Famula X 10W-40**

SAE 10W-40  
ACEA E9  
API CJ-4/SN

### **Famula X 15W-40**

SAE 15W-40  
ACEA E9  
API CJ-4/SN

**AZMOL**





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# MOTOR OILS for DIESEL ENGINES

## AZMOL FAMULA LD

**Famula LD 10W-40**  
**SAE 10W-40**  
**API CI-4**  
**ACEA E6/E7**



**AZMOL**



**AZMOL-BP oils are  
recommended by  
VOLVO Truck Concern**



**RENAULT**

**AZMOL**

## **VOLVO**

Volvo Group Trucks Technology

### **STD 417-0002 approval**

Company name:\* LLC "Ukrainian-British joint venture AZMOL-British Petrochemicals"  
 Product name:\* AZMOL Famula LD 10W-40  
 Oil code(s): IME1405260-A  
 Viscosity grade: 10W-40

Volvo VDS-3 approval	Yes
Mack EO-N approval	Yes
Renault VI RLD-2 approval	Yes

**Approval date:** April 10, 2019      **Approval #:** 417-0002-19-1897

**Validity:** Approval expires two years after the approval date.  
 For approval extension, a complete and updated approval form must be submitted at the expiry date ± two months.

**Signed:** Volvo Group Trucks Technology

*Bengt Otterholm*  
 Bengt Otterholm  
 Lubricants Coordinator

**Disclaimer:** This approval is solely based on information submitted by the applicant and no further quality check is made by Volvo. Hence, Volvo takes no responsibility to ensure that the quality of this product is continuously maintained. This is the sole responsibility of the Company (see above).

# AZMOL Famula LD 10W-40

**AZMOL-BP oils are  
recommended by MAN Concern**



MAN Truck & Bus SE 

MAN Truck & Bus SE Postfach 44 02 00 90207 Nürnberg  
 LLC "Ukrainian-British joint venture AZMOL-British Petrochemicals"  
 Ryo Katsuev  
 Yaroslava Mudroho Str. 2  
 71114 Zaporozhskaya region, Berdyansk  
 Ukraine

Order Number: 0811420-2713	Order Number: 0811420-1000	Order Code: EPTAD	E-Mail: best@man.eu	Nürnberg, 23.09.2019
-------------------------------	-------------------------------	----------------------	------------------------	-------------------------

Approval of: **gas engine oil**  
 to MAN standard **M 5477**  
 Start of approval: **23.09.2019**  
 End of approval: **22.09.2022**  
 Validity: **Ukraine and CIS Countries**

Dear Sir/Madam,  
 We are pleased to inform you that the service product with the designation  
**AZMOL Famula LD 10W-40**  
 Oil code: **IME 140S260-A**  
**SAE 10W-40**  
 has been approved under MAN approval number TUC 1390/19  
 This approval expires automatically  
 - if the formulation is changed  
 - if there are negative results from the field  
 Changes of any kind in the formulation must be reported to MAN Truck & Bus SE immediately in writing and may require a new approval process, for which the manufacturer must make an application.

Vorstand: Siegfried Reuber  
 Vorstand: Joachim Owe (Vorstand), Dr. Carsten Inra  
 Michael Kubinger - Jan Henrik Labitz - Göran Nyberg  
 Dr. Fredrik Zörn

SE der Gesellschaft München  
 Commerzbank AG, Postfach, DACH - BLZ 750 400 41 - Konto 1403000  
 IBAN: DE33 7504 0041 0145 0000 00 - BIC: COMBDE33  
 Sparkassen München - BLZ 751 000 00 - Konto 8010400  
 IBAN: DE30 7510 0000 0089 1044 00 - BIC: SPKMD333

Registergericht: Amtsgericht München HRB 86 963 | USt-IdNr.: DE21122281

MAN Truck & Bus SE  
 Postfach 44 02 00 90207 Nürnberg  
 Vogelparkstraße 33 - 90441 Nürnberg  
 Telefon +49 911 420-0 oder Durchwahl  
 Telefax +49 911 420 448522

www.man-truck.com  
 Ein Unternehmen der MAN Gruppe

MAN Truck & Bus SE 

- 2 -

The manufacturer or supplier must apply for an extension of the approval in writing. The application must contain confirmation that the formulation is unchanged. In the case of rebrands a written declaration of consent from the previous supplier must be submitted as well.  
 If the extension is not applied for in good time within the approval period (at the latest two months prior to expiry of the approval), the supplier approval and all rebrands will be deleted from the publicly accessible service product database on the day of expiry of the approval. After expiry of the approval period the product approval can be continued only by way of a new approval procedure, for which a charge will be made.

Yours faithfully,  
 MAN Truck & Bus SE

l.v.  l.v. 

Vorstand: Siegfried Reuber  
 Vorstand: Joachim Owe (Vorstand), Dr. Carsten Inra  
 Michael Kubinger - Jan Henrik Labitz - Göran Nyberg  
 Dr. Fredrik Zörn

SE der Gesellschaft München  
 Commerzbank AG, Postfach, DACH - BLZ 750 400 41 - Konto 1403000  
 IBAN: DE33 7504 0041 0145 0000 00 - BIC: COMBDE33  
 Sparkassen München - BLZ 751 000 00 - Konto 8010400  
 IBAN: DE30 7510 0000 0089 1044 00 - BIC: SPKMD333

Registergericht: Amtsgericht München HRB 86 963 | USt-IdNr.: DE21122281

MAN Truck & Bus SE  
 Postfach 44 02 00 90207 Nürnberg  
 Vogelparkstraße 33 - 90441 Nürnberg  
 Telefon +49 911 420-0 oder Durchwahl  
 Telefax +49 911 420 448522

www.man-truck.com  
 Ein Unternehmen der MAN Gruppe

# MOTOR OILS for DIESEL ENGINES

## AZMOL FAMULA M

### Famula M 5W-40

SAE 5W-40  
ACEA E7  
API CI-4/SL

### Famula M 10W-40

SAE 10W-40  
ACEA E7  
API CI-4/SL

### Famula M 15W-40

SAE 15W-40  
ACEA E7  
API CI-4/SL





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**MB-Approval**  
Mercedes-Benz

**AZMOL**

DAIMLER



Daimler AG - 70544 Stuttgart

Azmol British Petrochemicals  
Attn. Mr. Iliya Kataev  
Yaroslava Mudrogo str., Building 2  
71114 BERDYANSK  
UKRAINE

Telefon/Phone	Telefax/Fax	Hauptpost-Code/ Internal Code
+49 7 11 17-	+49 7 11 17-	
24801	59756	C651

Ihr Zeichen, Ihre Nachricht vom/ Your reference	Unser Zeichen, unsere Nachricht vom/ Our reference	Name E-Mail	Datum/Date
31.01.2018	RD/PDI-F-88390	Mrs. Fuchs	11.06.2018

**MB-Approval Certificate**  
New Approval - Engine Oil

**MB-Approval 228.3 for: "AZMOL 10w-40 Famula M"**  
**Oil-Code: 2000000005683, SAE-Grade: 10W-40**  
Reblend to IME 1401827-B with Oil-Code: IME 1401827-B, Infineum UK Limited

Dear Sir or Madam,

The aforementioned operating fluid complies with the requirements of the Mercedes-Benz Specifications for Operating Fluids, sheet 228.3 and is therefore approved for the respective Mercedes-Benz vehicles and assemblies. The application range is shown on the MB sheet and further defined on the sheet 223.2. Further requirements, e.g. SAE grades, capacities, change intervals etc. must also be observed.

The following regulations apply for the MB-Approval:

- The MB-Approval comes into force on the date shown on this certificate
- The MB-Approval will expire in 5 years at the latest
- The MB-Approval automatically terminates on expiry of the validity period at the latest
- The MB-Approval is only valid as long as the product name is listed in MB BeVo-ONLINE: <http://bevo.mercedes-benz.com>
- Applications for renewals or new approvals etc. must be made in good time
- In addition, the regulations laid down in the current "Obligations Regarding Approval for Operating Fluids" contract apply.

A 2-liter back-up sample of each formulation, which can be called upon by Daimler AG at any given moment, must be retained for at least 3 years. We will inform you of the dispatch address.

Sincerely  
Daimler AG

I.V. Johannes Leweux

I.V. Markus Paule

MB-APP 06/2018 MB-F

Daimler AG, Stuttgart, Germany  
Sitz und Registergericht/Domicile and Court of Registry: Stuttgart, HRB-Nr./Commercial Register No.: 19306  
Vorstand/Board of Management: Dieter Zetsche, Vorsitzender/Chairman;  
Martin Ollmann, Rezaul Karim Siddiqui, Oliver Kallweit, Wilfried Porth,  
Britta Seeger, Hubertus Troska, Sodo Uebber

Daimler AG  
70544 Stuttgart  
Telefon/Phone +49 7 11 17-10  
Telefax/Fax +49 7 11 17-222 44  
daimler@daimler.com  
www.daimler.com



# BRITISH PETROCHEMICALS

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QuickServe Online		
Company Name	Product Name	Vis Grade
Valvoline	Premium Blue 7500	15W-40
Valvoline	Premium Blue 7500	15W-40
Valvoline	Premium Blue 7500	20W-50
Valvoline	Premium Blue 7500 Plus	10W-30
Valvoline	Premium Blue 7500 Plus	15W-40
<b>Alternatives</b>		
Company Name	Product Name	Vis Grade
ADDROL Lube Oil GmbH	ADDROL Diesel Longlife MD 1548 15W-40	15W-40
AD Oils&grease	Satec Truck SAE 15W-40 API C-4/S1	15W-40
Aral AG	Aral Turbotal 15W-40	15W-40
Aral AG	Aral Turbotal 15W-40	15W-40
Aral AG	Aral Mega Turbotal 10W-40	10W-40
BALBER LAUWE and CO LTD	BALBEROL ULTRABA PLUS	15W-40
BARDAHL DE MEXICO S.A. DE C.V.	Bar Dahl Super Diesel Oil SAE 15W-40 CI-4	15W-40
Gulf Oil International Ltd	Gulf Super Duty VLE 15W-40	15W-40
Gulf Western Premium Quality Lubricating Oils Pty Ltd	TOP DDD6 XDO 15W-40	15W-40
HIGH INDUSTRIAL LUBRICANTS and LIQUIDS (PRL) Corporation	Fabrol Force 1500 Diesel 15W-40 CI-4/CH-4, SL	15W-40
Indian Oil Corporation Limited	SERVO PRDE SUPREME PLUS 15W-40	15W-40
International Parts Distribution, S.A. de C.V.	Prestite Aceite para Motores a Diesel 15W-40	15W-40
LLC "JV AZMOL-BP"	AZMOL Famula M 15W-40	
Lubritech Limited	Grantl Quasar 15W-40	
LUBRICANTES DE AMERICA S.A. DE C.V.	LUBRAL DIESEL TURBO HD SAE 15W-40 API C-4 P-4	
LUN (CHINA) LUBRICANTS CO., LTD.	LUN Kefelmo CI-4/S1 15W-40 Synthetic Technology 15W-40	
LURCOL LUBRICANTS EUROPE OY	Teksol Super HPO 15W-40	
Shell Oil Company Pte Ltd	US Lube Shellax T12 15W-40	
Valvoline	AR Fleet Extra SAE 15W-40	
Valvoline	AR Fleet Extra NextGen SAE 15W-40	
Valvoline	AR Fleet E700	
Valvoline	AR Fleet E700 Plus 15W-40	
Valvoline	Eurodiesel	
Valvoline	Heavy Duty Diesel with MaxLife HD Technology E700 15W-40	
Waf Oil Corporation N.V.	WOLF VITALTECH 15W-40	
WY S.A.	Extravida XV 300 15W-40	
ZHEJIANG OYILON LUBRICANTS CO., LTD	ULTRA 7500 15W-40	15W-40



**DAIMLER**

Daimler AG - 70444 Stuttgart

Azmol British Petrochemicals  
Yaroslava Mudrygo str., Building 2  
71114 BERDYANSK  
UKRAINE

24801 59756 C051

09.08.2018 RD/PDF-94243 Mrs. Fuchs 12.11.2018

**MB-Approval Certificate**  
New Approval - Engines Oil

**MB-Approval 228.3 for: "AZMOL 15w-40 Famula M"**  
Oil-Code: 2000000005676, SAE-Grade: 15W-40  
Related to IAE 1204127-A with Oil Code: IAE 1204127-A, Infineum UK Limited

Dear Sir or Madam,

The aforementioned operating fluid complies with the requirements of the Mercedes-Benz Specifications for Operating Fluids, sheet 228.3 and is therefore approved for the respective Mercedes-Benz vehicles and assemblies. The application range is shown on the MB sheet and further defined on the sheet 228.3. Further requirements, e.g. SAE grades, capacities, change intervals etc. must also be observed.

The following regulations apply for the MB-Approval:

- The MB-Approval comes into force on the date shown on this certificate
- The MB-Approval will expire in 5 years at the latest
- The MB-Approval automatically terminates on expiry of the validity period at the latest
- The MB-Approval is only valid as long as the product name is listed in MB BeVo-ONLINE <https://bevo.mercedes-benz.com>
- Applications for renewals or new approvals etc. must be made in good time

the regulations laid down in the current "Obligations Regarding Approval for Operating Fluids" (see sheet 228.3) apply to each formulation, which can be called upon by Daimler AG at any given moment, for a period of at least 3 years. We will inform you of the dispatch address.

I.V. Mayer-Paule

Daimler AG  
Stuttgarter Straße 57  
70444 Stuttgart  
Germany  
Phone: +49 71 41 17-0  
Fax: +49 71 41 17-22244  
Email: [bevo@mercedes-benz.com](mailto:bevo@mercedes-benz.com)  
[www.daimler.com](http://www.daimler.com)

**AZMOL-BP oils are  
recommended by  
VOLVO Truck Concern**



**RENAULT**

**AZMOL**

**VOLVO**  
Volvo Group Trucks Technology

**STD 417-0002 approval**

Company name:\* LLC "Ukrainian-British joint venture AZMOL-British Petrochemicals"  
Product name:\* AZMOL Famula M 10W-40  
Oil code(s): IME 1401827-B  
Viscosity grade: 10W-40

Volvo VDS-3 approval	Yes
Mack EO-N approval	Yes
Renault VI RLD-2 approval	Yes

Approval date: February 4, 2020 Approval #: 417-0002-20-2060

Validity: Approval expires two years after the approval date.  
For approval extension, a complete and updated approval form must be submitted at the expiry date ± two months.

Signed: Volvo Group Trucks Technology  
*R. Otterholm*  
Bengt Otterholm  
Lubricants Coordinator

**Disclaimer:** This approval is solely based on information submitted by the applicant and no further quality check is made by Volvo. Hence, Volvo takes no responsibility to ensure that the quality of this product is continuously maintained. This is the sole responsibility of the Company (see above).

**VOLVO**  
Volvo Group Trucks Technology

**STD 417-0002 approval**

Company name:\* LLC "Ukrainian-British joint venture AZMOL-British Petrochemicals"  
Product name:\* AZMOL Famula M 15W-40  
Oil code(s): IME 1204127-A  
Viscosity grade: 15W-40

Volvo VDS-3 approval	Yes
Mack EO-N approval	Yes
Renault VI RLD-2 approval	Yes

Approval date: February 4, 2020 Approval #: 417-0002-20-2060

Validity: Approval expires two years after the approval date.  
For approval extension, a complete and updated approval form must be submitted at the expiry date ± two months.

Signed: Volvo Group Trucks Technology  
*R. Otterholm*  
Bengt Otterholm  
Lubricants Coordinator

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# Motor oil AZMOL Famula M 15W-40 licensed by API




energy **API** | AMERICAN PETROLEUM INSTITUTE  
Engine Oil Licensing

### Results Detail

**Company Information**



Company Name:	JV AZMOL-BP
Corporate Address:	Yaroslava Mudroho St, 2 Berdiansk, 71114, Ukraine **
License Status:	Active
License Number:	3650
Original License Issue Date:	20-Apr-2020
License Effective Date:	20-Apr-2020
License Expiration Date:	31-Mar-2021





**Products**

BRAND NAME	SAE VISCOSITY GRADE	SERVICE CATEGORY
AZMOL Famula M	15W-40	CI-4/SL

## Comparison table of oil parameters done by OCLS laboratory in UK

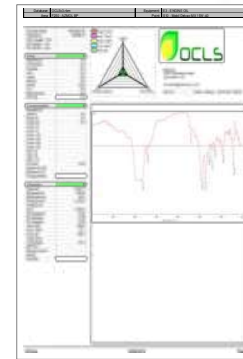
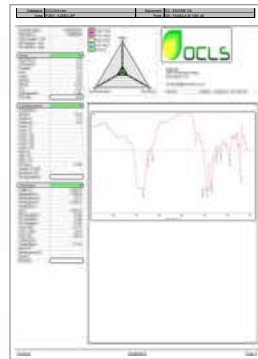

Index name	 <b>AZMOL Famula M 15W-40</b>	 <b>Mobil Delvac MX 15W-40</b>
Viscosity 40° C	108.1	109.6
Viscosity 100° C	14.2	14.1
Viscosity Index	<b>133</b>	129
Water ppm	242	235
TBN. mg/KOH	11.5	10.0
Zinc ppm., Molybdenum	1464 47	1394 48
Phosphorus	1319	294
Calcium	1365	1061
Magnesium	1302	989
Silicon	12	3

Index name	 <b>AZMOL Famula M 15W-40</b>	 <b>Mobil Delvac MX 15W-40</b>
API	CI-4/SL	CI-4/CH-4/SL/SJ
ACEA	E7	E7/B4/A2
Daimler Chrysler MB	228.3	228.3
Kinematic viscosity, sSt		
- at 100°C	14,63	14,4
- at 40°C	109,27	108,25
Viscosity index	138	136
TBN, mg KOH/g	10,4	8,14
Density at 20°C, kg/m <sup>3</sup>	878	876
Open cup flash point, C°	214	220
Pour point, C°	minus 30	minus 30
% of active elements: Ca/Zn	0,35/0,15	0,26/0,15
OIT stability test 50 hours	0,22	0,16
NOACK volatility, %	10,04	8,96
Foam as per ASTM D 892		
- foaming tendency at 24/94/24 after 94	0/5/0	0/0/0
- foam stability (10 min) at 24/94/24 after 94	0/0/0	0/0/0
Dynamic viscosity CCS at -20°C, mPa*s	6110	6410
Dynamic viscosity MRV at -25°C, mPa*s	25000	23000



**AZMOL Famula M 15W-40**

**Mobil Delvac MX 15W-40**

Ox Chem Laboratory Services Ltd  
Ox 13  
Roberts Road, Doncaster,  
South Yorkshire  
UK S71 2JZ  
Laboratory: 01302 329993  
Mobile: 07772 0 99953  
Website: [www.oxchemlab.co.uk](http://www.oxchemlab.co.uk)

**Comparison of Lubricants Report**

Comparative testing of hydraulic oils was performed in the laboratory of the OCLS: Azmol Famula M 15w40 and Mobil Delvac MX 15w40. The test results are attached on 2 pages.

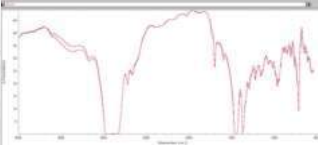
**Visual Evaluation:**

Azmol Famula M 15w40 Clear Amber colour. Homogeneous. Neutral smell.  
Mobil Delvac MX 15w40 Clear Amber colour. Homogeneous. Neutral smell.

**In accordance with the test results, we can conclude:**

Azmol Famula M 15w40 is a good equivalent and therefore analogous product, compared against Mobil Delvac MX 15w40.  
The quality base oil and additive package shows good high temperature operation performance, exceeding the Delvac with a higher Viscosity Index.  
The additive package has excellent soot handling capability ensuring good clean running performance. TBN levels typically match or exceed the Mobil product, offering longer in service life and protection against poorer quality fuel and harsh running conditions.

The similar properties of oils are also confirmed by the FTIR graph:



Azmol Famula M 15w40 is the red line in the spectra below. Mobil Delvac MX 15w40 is the blue line.

Date: 30/08/2018      Mike Valente

Azmol Famula M 15w40 is a good equivalent and therefore analogous product, compared against Mobil Delvac MX 15w40. The quality base oil and additive package shows good high temperature operation performance, exceeding the Delvac with a higher Viscosity Index. The additive package has excellent soot handling capability ensuring good clean running performance. TBN levels typically match or exceed the Mobil product, offering longer in service life and protection against poorer quality fuel and harsh running conditions.

# MOTOR OILS for DIESEL ENGINES

## AZMOL FAMULA R

### **Famula R 10W-40**

SAE 10W-40  
ACEA E5  
API CH-4/SL

### **Famula R 15W-40**

SAE 15W-40  
ACEA E5  
API CH-4/SL

### **Famula R 20W-50**

SAE 20W-50  
ACEA E5  
API CH-4/SL

**AZMOL**



# TRANSMISSION OILS

## AZMOL FORWARD SYNTH

## AZMOL FORWARD PLUS

### **Forward Synth 75W-90**

SAE 75W-90

API GL-4/GL-5

### **Forward Plus 85W-90**

SAE 85W-90

API GL-5

### **Forward Plus 80W-85**

SAE 80W-85

API GL-5

### **Forward Plus 80W-90**

SAE 80W-90

API GL-5

### **Forward Plus 80W-90**

SAE 80W-90

API GL-4

**AZMOL**





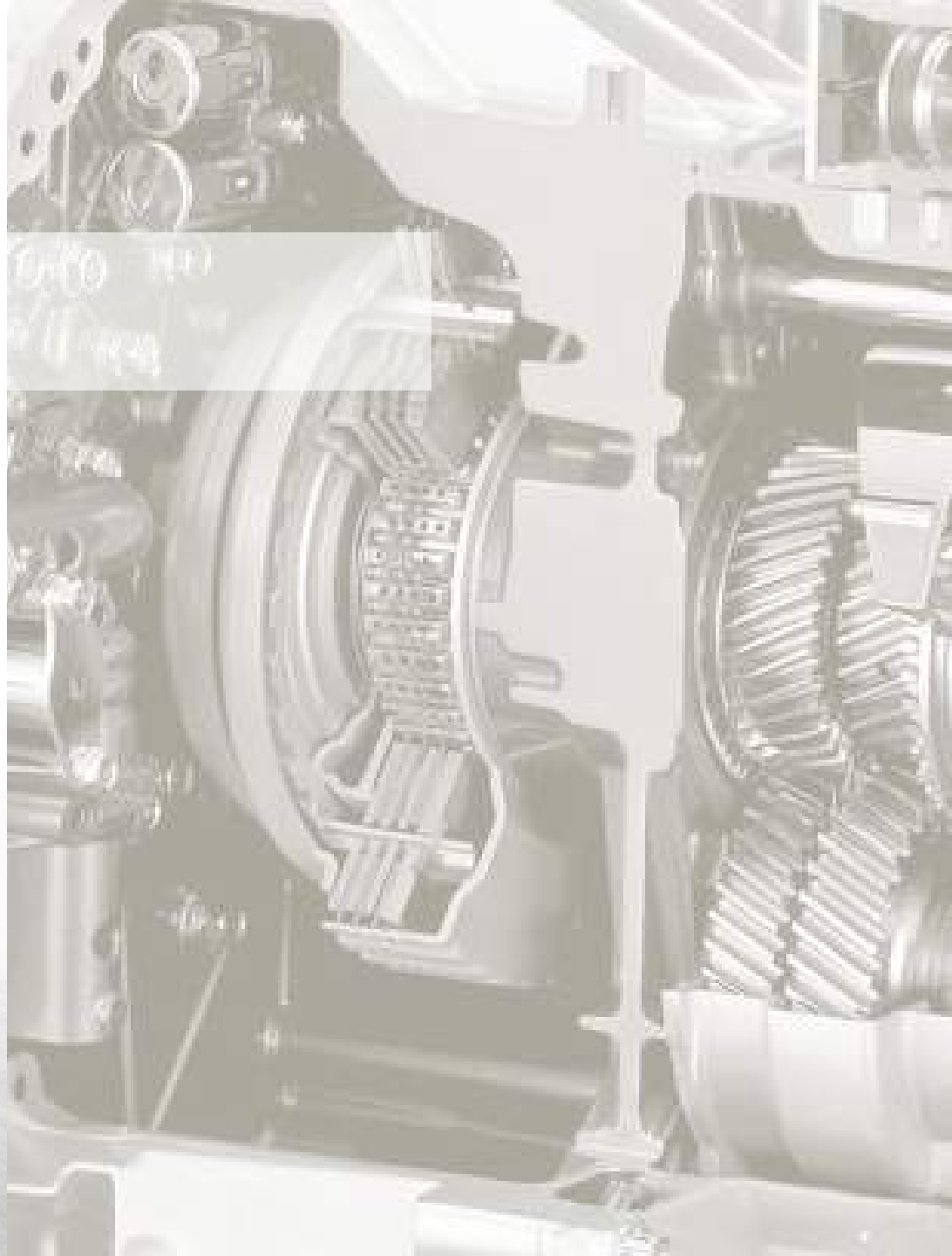
**BRITISH  
PETROCHEMICALS**  
PERFECTLY CREATED

## TRANSMISSION OILS **AZMOL FORWARD TEC**

**Forward TEC 85W-140**  
SAE 85W-140  
API GL-5



**AZMOL**





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PERFECTLY CREATED

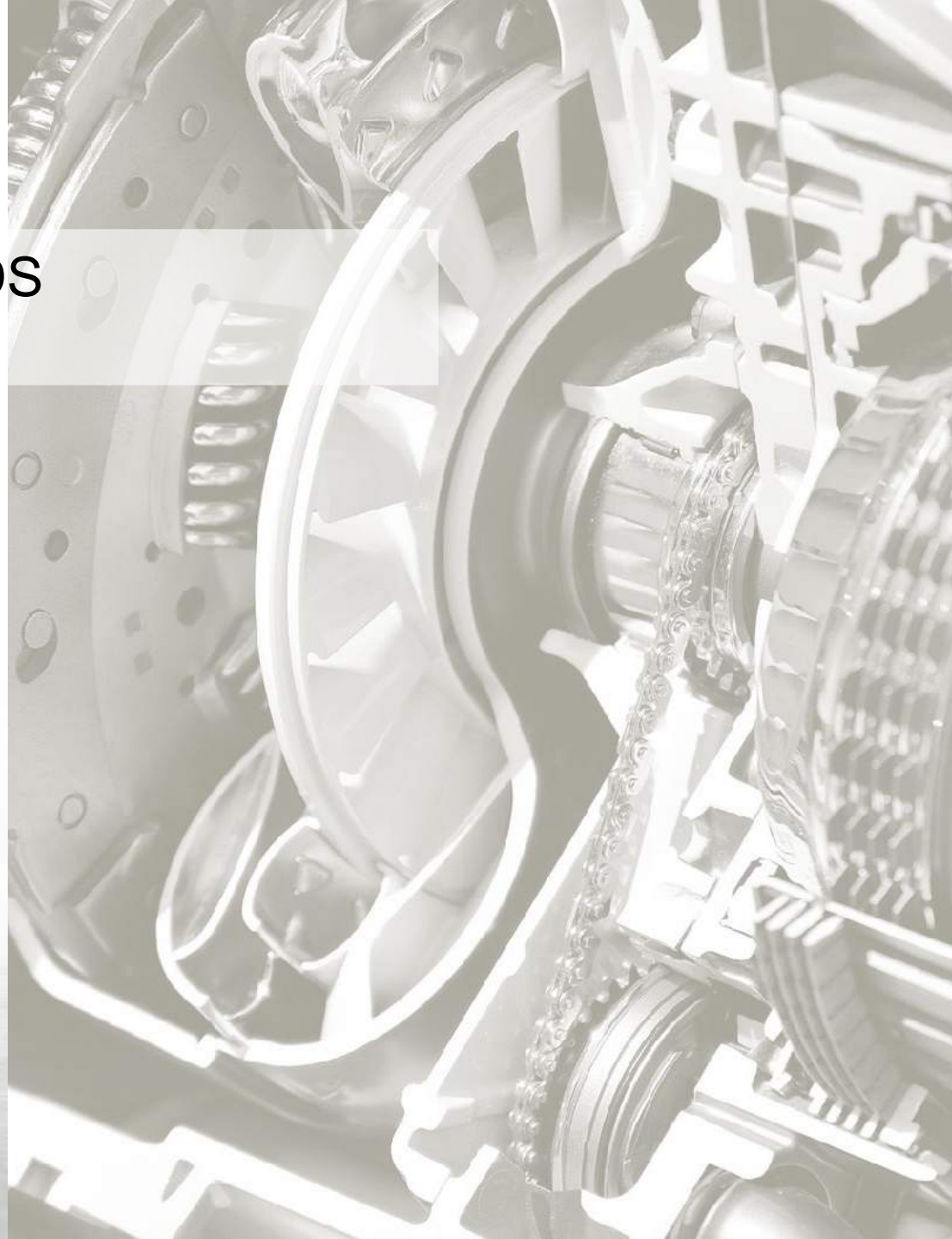
# TRANSMISSION FLUIDS

## AZMOL ATF DEX

**ATF DEX II D**  
**GM Dexron® IID**

**ATF DEX III**  
**GM Dexron® III**

**AZMOL**



## SPECIAL TRACTOR OILS

**AZMOL Multitrac STOU**

**AZMOL Multitrac UTTO**

**Multitrac STOU 10W-30**

SAE 10W-30

API CG-4, GL-4

**Multitrac STOU 10W-40**

SAE 10W-40

API CG-4, GL-4

**Multitrac UTTO 80W**

SAE 80W

API GL-4





**BRITISH  
PETROCHEMICALS**  
PERFECTLY CREATED

## PRODUCTS CATEGORIES

**PVL**

Passenger Vehicles  
Lubricants



**CVL**

Commercial Vehicles  
Lubricants



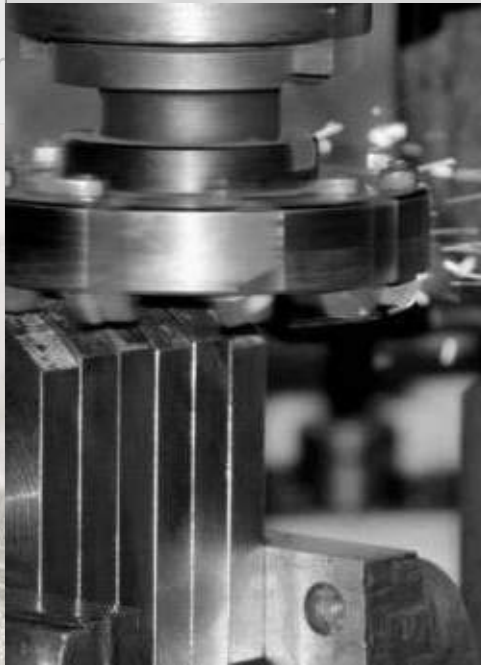
**AGRI**

Lubricants for  
Agricultural sector



**IND**

Industrial sector  
Lubricants



**GREASES**



# HYDRAULIC OILS **AZMOL AVELUS**

## **AVELUS**

DIN 51524.2 HLP

ISO VG -15, -22, -32, -46, -68

## **AVELUS D**

DIN 51524.2 HLPD

ISO VG -15, -22, -32, -46, -68

## **AVELUS V**

DIN 51524.3 HVLP

ISO VG -15, -22, -32, -46, -68, -100



## ▼ **AZMOL AVELUS**



### **AVELUS 15, -22, -32, -46, -68**

Hydraulic oils with improved antioxidant and antiwear properties. Recommended for hydraulic systems of different equipment.



### **AVELUS D 15,-22,-32,-46,-68**

Recommended for hydraulic systems which require zero Zinc content.



### **AVELUS V 15,-22,-46,-68,-100**

Recommended for operating in extreme temperatures conditions and/or its wide fluctuations, at high requirements to stability and antiwear protection.

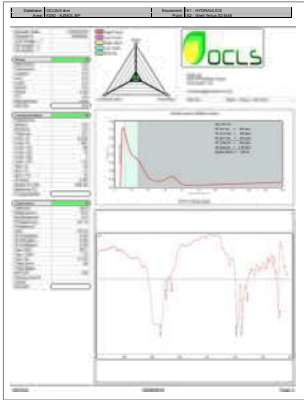
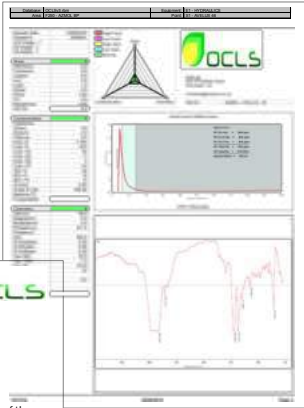




**AZMOL AVELUS 46**



**Shell Tellus S2 M 46**



**Comparison of Lubricants Report**

Oil Check Laboratory Services Ltd.  
Unit 14  
Roberts Road, Doncaster,  
South Yorkshire,  
DN4 6JY


Laboratory: 01302 329609  
Mobile: 07773 036913  
Website: <http://www.oilanalysis.org>

Comparative testing of hydraulic oils was performed in the laboratory of the OCLS: Azmol Avelus 46 and Shell Tellus S2 M46. The test results are attached on 2 pages.

Visual Evaluation:  
Avelus 46 - Clear Light Amber colour. Homogeneous. Neutral smell. Shell Tellus S2 M46 - Clear Light Amber colour. Homogeneous. Neutral smell.

In accordance with the test results, we can conclude:  
Azmol Avelus 46 is a good equivalent and therefore analogous product, compared against Shell Tellus S2 M46. Additive levels provide performance and Oxidation resistance in equal measure. The quality base oil shows good high temperature operation, with a Viscosity Index comfortably exceeding the Shell standard.

The similar properties of oils are also confirmed by the FTIR graph:





Avelus 46 is the red line in the spectra below, Tellus S2 M46 is the blue line

Date: 30/08/2018  
Mike Volante *[Signature]*

Azmol Avelus 46 is a good equivalent and therefore analogous product, compared against Shell Tellus S2 M46. Additive levels provide performance and Oxidation resistance in equal measure. The quality base oil shows good high temperature operation, with a Viscosity Index comfortably exceeding the Shell standard.

**Comparison table of oil parameters done by OCLS laboratory in UK**

Index name	 <b>AZMOL AVELUS 46</b>	 <b>Shell Tellus S2 M46</b>
Viscosity, 40°C	45	46.1
Viscosity, 100°C	7.3	7.6
Viscosity Index	<b>123</b>	113
Particle ISO 4406	20/16/13	18/17/14
Cleanliness Class	11	11
Water ppm	346	486
Acid No. mg/KOH	0.32	0.28
FTIR Oxidation	0.0	0.0
RPVOT (MINUTES)	137	140
Additives ppm.,Zinc	392	273
Phosphorus	371	271
Calcium	96	36
Magnesium	0	12

**GEAR OILS**  
**AZMOL GEARANA**

**GEARANA**

DIN 51517.3 CLP

ISO VG -68, -100, -150, -220

**GEARANA**

DIN 51517.3 CLP

ISO VG -320, -460, -680

**GEARANA SHC**

DIN 51517.3 CLP

ISO VG -150, -220, -320, -460, -680, -1000





**AZMOL GEARANA 220**



**Shell Omala S2 G 220**



Oil Check Laboratory Services Ltd.  
Unit 14  
Roberts Road, Doncaster,  
South Yorkshire,  
DN4 0JT

Laboratory: 01302 329609  
Mobile: 07773 035653  
Websites: <http://www.oil-analysis.org>

**Comparison of Lubricants Report**

Comparative testing of hydraulic oils was performed in the laboratory of the OCLS: Azmol Gearana 220 and Shell Omala S2G 220. The test results are attached on 2 pages.

Visual Evaluation:

Azmol Gearana 220 Clear Dark Amber colour. Homogeneous, Neutral smell.

Shell Omala S2G 220 Clear Amber colour. Homogeneous, Neutral smell.

In accordance with the test results, we can conclude:

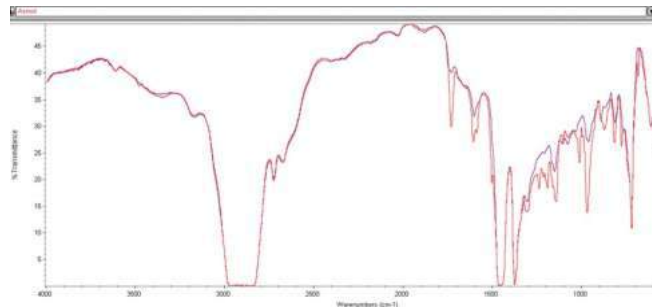
Azmol Gearana 220 is a good equivalent and therefore analogous product, compared against Shell Omala S2G 220.

Additive levels provide performance and Oxidation resistance in equal measure.

The quality base oil shows good high temperature operation performance.

The additive package will offer high load capability and anti-wear additive package to resist wear.

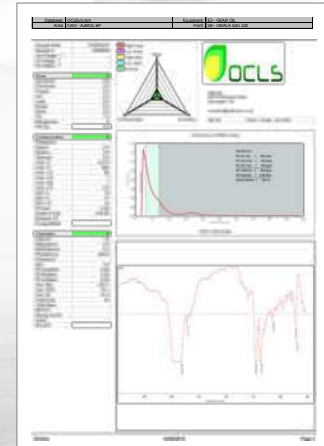
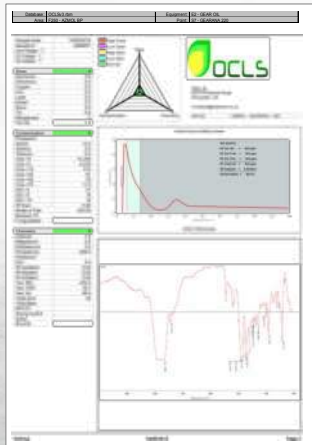
The similar properties of oils are also confirmed by the FTIR graph:



Azmol Gearana 220 is the red line in the spectra below, Shell Omala S2G 220 is the blue line

Date. 30/08/2018

Mike Volante



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PETROCHEMICALS**  
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## PRODUCTS CATEGORIES

**PVL**

потребительские  
масла



**CVL**

коммерческие  
масла



**AGRI**

сельскохозяйственная  
техника



**IND**

индустриальный  
сектор



**GREASES**



**MULTI-PURPOSE GREASES**  
**AZMOL LUVANA**  
**AZMOL GREASE WR**

**LUVANA LX**  
NLGI 2  
DIN 51502: KP2N-30




**LUVANA EP**  
NLGI 2  
DIN 51502: KP2K-30

**LUVANA LC**  
NLGI 2  
DIN 51502: KP2K-30

**GREASE WR**  
NLGI 2  
DIN 51502: K2G-30



## Comparison table of oil parameters done by OCLS laboratory in UK

Index name	 <b>AZMOL LUVANA LX2</b>	 <b>Shell Gadus S3V 220 C2</b>	 <b>Mobilgrease XHP 222</b>
Worked Penetration 0.1mm	290	293	279
Oil Separation 24 hrs 100°C	4.0%	9.9%	5.2%
Copper Strip 24 hrs @ 80°C	1A	1A	1A
Drop Point °C	248	245	243
4-Ball Weld Load kg	<b>450</b>	400	355
Water ppm	130	258	243
Additives ppm., Zinc	1917	1587	2181
Phosphorus	1935	284	2009
Calcium	61	138	0
Potassium	1	0	0
Lithium	4544	2154	1865

Conclusion by **OCLS (UK)**



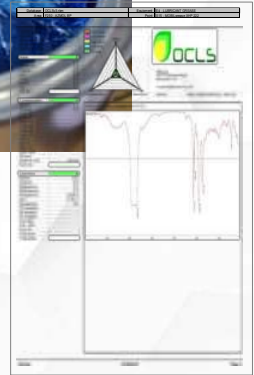
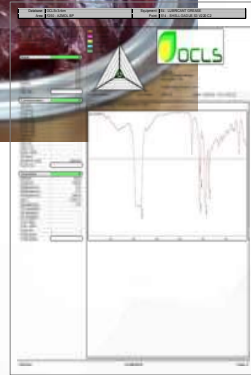
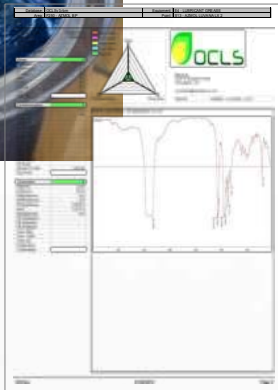
**AZMOL  
LUVANA LX**



**Shell Gadus  
S3 V 220 C2**



**Mobilgrease  
XHP 222**



OILCHECK Laboratory Services Ltd  
Unit 16  
Fibers Road, Doncaster,  
South Yorkshire,  
DN4 6JT  
Laboratory 01702 30868  
Mobile 07772 03953  
Website [www.oilcheck.co.uk](http://www.oilcheck.co.uk)

**Comparison of Grease Lubricants Report**

Comparative testing of Grease samples was performed in the laboratory of the OCLS: Azmol Luvana LX2, Shell Gadus S3 V220 C2 and Mobil XHP 222. The test results are attached on 3 pages.

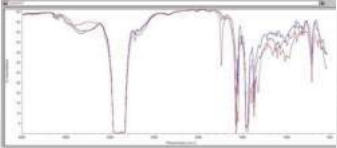
**Visual Evaluation:**

Azmol Luvana LX2: Smooth texture, Clear, Turquoise colour, Neutral smell.  
Shell Gadus S3 V220 C2: Smooth texture, hazy, Red-brown colour, neutral smell.  
Mobil XHP 222: Smooth texture, Clear Blue colour, Neutral smell.


**In accordance with the test results, we can conclude:**

Azmol Luvana LX2 is a good equivalent and therefore analogous product, compared against Shell Gadus S3 V220 C2 and Mobil XHP 222. Advantages are better Extreme pressure and superior high temperature resistance.



The similar properties of greases are also confirmed by the FTIR graph:



Luvana EP2 is the red line in the spectra above.

Date: 30/06/2018 Mike Volante 

**Comparison table of oil parameters done by OCLS laboratory in UK**

Index name	 <b>AZMOL LUVANA EP 2</b>	 <b>Shell Gadus S2 V 220 2</b>
Worked Penetration 0.1mm	293	276
Oil Separation 24 hrs 100 C	7.2%	6.6%
Copper Strip 24Hours @ 80C	<b>1A</b>	1B
Drop Point deg C	<b>205</b>	192
4-Ball Weld Load kg	<b>400</b>	315
Water ppm	116	352
Additives ppm., Zinc	1179	266
Phosphorus	1379	0
Calcium	23	314
Potassium	0	0
Lithium	1694	2393



**AZMOL LUVANA EP 2**



**Shell Gadus S2V220 2**



Oil Check Laboratory Services Ltd.  
Unit 14  
Roberts Road, Doncaster,  
South Yorkshire,  
DN4 0JT  
  
Laboratory: 01302 329609  
Mobile: 07773 035653  
Websites: <http://www.oil-analysis.org>

**Comparison of Grease Lubricants Report**

Comparative testing of Grease samples was performed in the laboratory of the OCLS: Azmol Luvana EP2 and Shell Gadus S2 V220 2. The test results are attached on 2 pages.

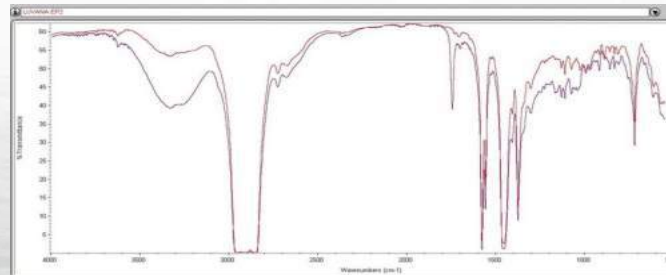
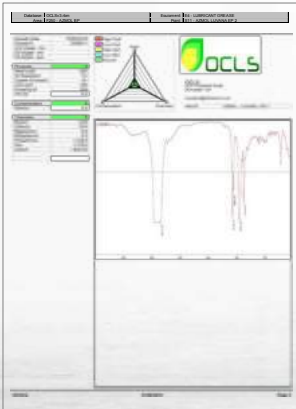
Visual Evaluation:

Azmol Luvana EP2; Smooth texture, Translucent, Light Amber colour, Neutral smell. Shell Gadus S2 V220 2; Smooth texture, Translucent, Brown colour

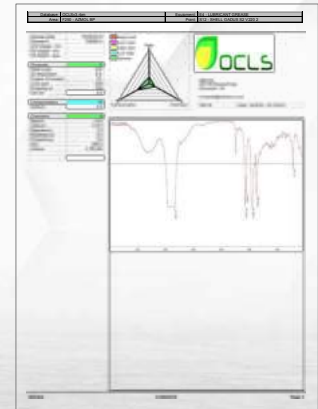
In accordance with the test results, we can conclude:

Azmol Luvana EP2 is a good equivalent and therefore analogous product, compared against Shell Gadus S2 V220 2. Advantages are lower water content and reduced Copper corrosion, better Extreme pressure and superior high temperature resistance.

The similar properties of greases are also confirmed by the FTIR graph:



Luvana EP2 is the red line in the spectra below, Gadus S2 V220 2 is the blue line



## HIGH-TEMPERATURE AND SPECIAL GREASES

### **AZMOL POLYRENA**

### **AZMOL MOLY CV**

#### **POLYRENA EP**

**NLGI 2**

**DIN 51502: KP2P-20**

#### **POLYRENA SHC 460**

**NLGI 1,5**

**DIN 51502: KHCP1,5R-30**

#### **MOLY CV**

**NLGI 2**

**DIN 51502: KPF2K-40**



#### **CERANA**

**NLGI 2**

**DIN 51502: KP2R-25**



## Comparison table of oil parameters done by OCLS laboratory in UK

Index name	 <b>AZMOL POLYRENA EP 2</b>	 <b>Shell Gadus S3 T 220 2</b>
Worked Penetration 0.1mm	272	287
Oil Separation 24 hrs 100 C	2.0%	3.7%
Copper Strip 24Hours @ 80C	<b>1A</b>	1B
Drop Point deg C	<b>284</b>	268
4-Ball Weld Load kg	<b>355</b>	315
Water ppm	118	112
Additives ppm., Zinc	783	0
Phosphorus	1004	1864
Calcium	0	1099
Potassium	0	0
Lithium	0	0



**AZMOL POLYRENA EP2**



**Shell Gadus S3 T220 2**



Oil Check Laboratory Services Ltd.  
Unit 14  
Roberts Road, Doncaster,  
South Yorkshire,  
DN4 0JT  
  
Laboratory: 01302 329609  
Mobile: 07773 035653  
Websites: <http://www.oil-analysis.org>



**Comparison of Grease Lubricants Report**

Comparative testing of Grease samples was performed in the laboratory of the OCLS: Azmol Polyrena EP2, Shell Gadus S3 T220 2. The test results are attached on 2 pages.

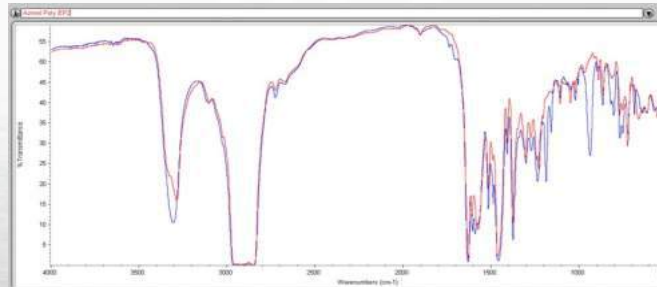
Visual Evaluation:

Polyrena EP2; Smooth texture, Translucent, Light Amber colour, Neutral smell.  
Gadus S3 T220 2; Smooth texture, Translucent, Sandy colour, Neutral smell.

In accordance with the test results, we can conclude:

Azmol Polyrena EP2 is a good equivalent and therefore analogous product, compared against Shell Gadus S3 T220 2. Advantages are slightly reduced Copper corrosion, better Extreme pressure resistance and high temperature capability.

The similar properties of greases are also confirmed by the FTIR graph:



Polyrena EP2 is the red line in the spectra above.

Date. 30/08/2018

Mike Volante





**BRITISH  
PETROCHEMICALS**  
PERFECTLY CREATED

## ANTIFREEZE AZMOL ANTIFREEZE G 11 AZMOL ANTIFREEZE G 12

### ANTIFREEZE G 11

SAE J 1034  
VW TL 774-C(G11)

### ANTIFREEZE G 12

SAE J 1034  
VW TL 774-D (G12)

### ANTIFREEZE G 12+

SAE J 1034  
VW TL 774-F (G12+)

### ANTIFREEZE G 12++

SAE J 1034  
VW TL 774-G (G12++)



**AZMOL**



## AZMOL ANTIFREEZE G11, ANTIFREEZE G12

### Features :

- Mineral - technology
- Carboxilate - technology
- Carboxilate PLUS - technology
- Hybrid - technology

### Advantages:

- Keep optimal temperature of engine
- Protect cooling system from freezing, corrosion, deposits and cavitation

### Application:



### Package:

1l

4l

5l

10l



## CAR CARE PRODUCTS

**AWD-40**

**CARB CLEANER**

**CHAIN LUBE**

**BRAKE CLEANER**



# AZMOL CAR CARE PRODUCTS



- ✓ High penetrability.
- ✓ Release sticky parts, rusty, wedged, frozen mechanisms
- ✓ Remove moisture, firm strong defense film.
- ✓ Safe for paint film, resin, plastic.

## APPLICATION:



- ✓ Professional cleaning of carburetor.
- ✓ Effective clean of deposits and carbon sludge of throttles, air and fuel nozzles, idle valve, carburetor channels, feed valves.



- ✓ Quick and effective remove of mud, carbon, soot, grease and oils rests.
- ✓ Good compatibility with paints, plastic and resin.



- ✓ Reliable wear protection of chain elements.
- ✓ Excellent remove of moisture and formation of water-resistant covering.



**BRITISH  
PETROCHEMICALS**  
PERFECTLY CREATED

# ▼ AZMOL CAR CARE PRODUCTS



**AZMOL Engine CLEANER**



**AZMOL Glass CLEANER**



**AZMOL Universal CLEANER.**



**AZMOL Plastic polish.**



**AZMOL AVELLANA**

**AZMOL**



**AZMOL**

BRITISH  
PETROCHEMICALS

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