



OEM Approvals for Gazpromneft and G-energy



Rolls-Royce Solutions GmbH

Maybachplatz 1
88045 Friedrichshafen
Germany
T +49 7541 30 00

Gazpromneft-lubricants, Ltd
Antonida Tarantina
14/3, Krzhizhanovskogo St.
117218, Moscow
RUSSIA

Contact: Vanessa Reiter
e-Mail: Vanessa.Reiter@rolls-royce.com

Tel No : +49 7541 300000

Date: 24 August 2021
Re: TDVC

Approval of Gazpromneft Diesel Premium 15W-40

Dear Ms Tarantina,

Based on the information and test results you provided, as well as our laboratory analyses, the engine oil

Gazpromneft Diesel Premium 15W-40
Oil Code

SAE 15W-40
GPN-04-01-20-07

which you submitted for approval meets the requirements for Oil Category 2 and is approved for use in all *mtu* engines (except Series 8000, 4000-03 M IMO III, 4000-04 C/R/T, 4000-05 C/G/T and M IMO III, 2000M41A IMO III, 956 TB31/32/33/34 and 1183 TB32 Genset).

The letter of approval does not cover Series 1000, 1100, 1300, 1500, 1800 engines.

The approval is valid until

September 2023.

For an extension of this approval, please inform us at least one month before expiration of the approval period.

Please note that any modification of the engine oil will invalidate the approval in accordance with our terms of approval (MTL 5044).

Yours sincerely

Rolls-Royce Solutions GmbH

I.V. Perwein

i.A. Reiter

Board of Management, Andreas Schmid (Production), CEO, Lubricants Division, PO Box 1000
Chairman of the Supervisory Board: Jürgen Stübel, Chairman, Rüdiger Reiter, Chairman, HFE 830-227
E.ON Energy Research Center, 89045 Friedrichshafen, Germany, 89045 Friedrichshafen, Germany, 89045 Friedrichshafen, Germany
E.ON Energy Research Center, 89045 Friedrichshafen, Germany, 89045 Friedrichshafen, Germany, 89045 Friedrichshafen, Germany
VAT No. DE 253783444

rolls-solutions.com





MAN Truck & Bus AG

MAN Truck & Bus AG Postfach 44 02 58 90207 Nürnberg

Gazpromneft-Lubricants, Ltd.
Mrs. Antonida Tarantina
14/3. Krzhizhanovskogo str.
117218 Moscow
Russia

Unter-Nr./ 09/1420-2713	Unter-Telefax 0511/420-1528	Abkürzung EPTAC	E-Mail est.nfo@man.eu	Nürnberg, 11.01.2019
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Prolongation of approval against M 3275-1

Start of approval: 20.01.2018

Prolongation of approval until: 19.01.2022

Marketing area: worldwide

Dear Sirs,

we are pleased to inform you, that the approval for the diesel engine oil bearing the designation

Gazpromneft Diesel Premium 15W-40

has been prolonged under MAN approval-no.

TUC 0531/15 for SAE 15W-40

This prolongation is only available for the unchanged formulation and in combination with the original approval letter. The approval will automatically expire at the point in time indicated above, unless an prolongation has been applied for in good time by the maker or supplier.

Yours faithfully,

MAN Truck & Bus AG

This letter was created electronically without signature.

Andrea Dawidczak

Vorsitzender des Aufsichtsrates: Andreas Renschler
Vorstand: Joachim Orzes (Vorsitzender), Dr. Ulrich Dilling - Dirk
Grüße-Lohse, Dr. Carsten Intra, Jan-Henrik Laffrentz
Dr. Frederik Zahm

Sitz der Gesellschaft: München
Commerzbank Aktiengesellschaft, Dachau BLZ 700 400 41 Konto 1450600
IBAN: DE33 7034 0041 0145 0600 00 BIC: COBADE33XXX
Städtsparkassen München BLZ 701 500 00 Konto 89104400
IBAN: DE36 7015 0000 0089 1044 00 BIC: SSKMDEM1

Druckvermerk: Addressat München 400 88 882 110 6161-1 (2011-09-01)

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Wagenladungen: Nbg -Rbf.
Lkw-Sendungen: Nbg - Vogelweihenstr. 33

www.man-tr.com





Mercedes-Benz AG | 70544 Stuttgart

Mercedes-Benz

Gazpromneft Lubricants Italia Management S.p.A.
Via Francesco Benaglia, 13
00153 ROME
ITALY

Tel: +49 711 17 2450
Fax: +49 711 17 2925

In-Zusatz, Ihre bestmögliche /
Your reference /
25.07.2021

unser Zeichen, unsere Hochkultur /
Our reference number /
42/104152993

Date:
13.01.2022

MB-Approval Certificate - New Approval - Engine Oil - Robot
MB-Approval 228.3 for: "Gazpromneft Diesel Premium 15W-40"
Oil-Code: GFN-04-04-20-00, SAE-Grade: 15W-40

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 Mercedes-Benz AG at any given moment, must be retained. We will inform you of the dispatch address.

Sincerely
Mercedes-Benz AG

i. V. Ralf Kruenberg

I.V. Ralf Kruenberg

I.V. Dr. Jochen Belsch

I.V. Dr. Jochen Belsch

Mercedes-Benz AG | 70544 Stuttgart | T/F: +49 711 17 0 | T/F: +49 711 17 2 22 44 | 44log.ms@mercedes-benz.com | www.mercedes-benz.com

Mercedes-Benz AG, Stuttgart, Germany | Sitz und Registergericht: Stuttgart, HRB Nr. 2/Commercial Register No.: 74 3879



Mercedes-Benz AG | 70546 Stuttgart

Mercedes-Benz

Gazpromneft Lubricants Italia S.p.A
Via Francesco Benaglia, 13
00153 ROME
ITALY

T/P +49 711 17 24801
T/F +49 711 17 59756



Ihr Zeichen, Ihre Nachricht vom/
Your reference
04.08.2020

Unser Zeichen, unsere Nachricht vom/
Our reference number
RD/PMI-127565

Date
27.04.2021

MB-Approval Certificate - New Approval - Engine Oil - Original
MB-Approval 229.3 for: "G-Energy Synthetic Active 5W-40"
Oil-Code: GPN-02-03-20-06, SAE-Grade: 5W-40

MB Spec: V 2020.1

Dear Sir or Madam,

The aforementioned operating fluid complies with the requirements of the Mercedes-Benz Specifications for Operating Fluids, sheet 229.3 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.

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- 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 Mercedes-Benz AG at any given moment, must be retained. We will inform you of the dispatch address.

Sincerely
Mercedes-Benz AG

i.V. Fritz Kreitmann

i.V. Dr. Jochen Betsch

Mercedes-Benz AG | 70546 Stuttgart | T/P +49 711 17 0 | T/F +49 711 17 2 22 44 | dialog.mb@daimler.com | www.mercedes-benz.com

Mercedes-Benz AG, Stuttgart, Germany | Sitz und Registergericht/Domicile and Court of Registry: Stuttgart, HBR-Nr./Commercial Register No.: 76 2873
Vorsitzender des Aufsichtsrats/Chairman of the Supervisory Board: Bernd Pischetsrieder
Vorstand/Board of Management: Ota Källenius, Vorsitzender/Chairman; Jörg Burzer, Renata Jungo Brünzger, Sajjad Khan, Sabine Kohlesien, Harald Wilhelm, Markus Schäfer, Britta Seeger

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Volvo Group Trucks Technology

STD 417-0002 approval

Company name: "Gazpromneft-lubricants", Ltd
 Product name: Gazpromneft Diesel Premium 15W-40
 Oil code(s): GPN-04-01-15-05
 Viscosity grade: 15W-40

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

Approval date: September 24, 2020 **Approval #:** 417-0002-20-1185

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.

Approval: *Approved*



Volvo Group Trucks Technology

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).



RENAULT TECHNOLOGIE ROUMANIE
RO CTT A06 1 01, Titu, Jud.Dambovitza
Str.Aviatorilor, Nr.1, Cod 135500

Téléphone : +40751021700
gabriel-alexandru.serban@renault.com

RENAULT TECHNOLOGIE ROUMANIE

API : RO CTT A06 1 01

Sofia - Aurora MONDIRU

Ref. QBT7300-2021-20846

16/11/2021

Attention: Daria Shramova
Company: Gazpromneft-Lubricants, Ltd
Address : 17, Butlerova str.,
BC «NEO GEO», sector A
Moscow, 117342
Russian Federation

Objet: RN Certification – GAZPROMNEFT Lubricants – Renault approval.

Dear Ms. Shramova,

I am pleased to send you the Renault certificates. Here you can find some details about your RN after sale engine oils :

- > G-Energy Synthetic Active 5W-30
(OR-F79333Q-A) A3/B4-16 SAE 5W-30 RN700-21-87 & RN710-21-74
- > G-Energy Synthetic Active 5W-40
(OR-F79506R-A) A3/B4-16 SAE 5W-40 RN700-21-88 & RN710-21-75

The certification is effective until 01/05/2023.

Thank you for your cooperation.

Kind Regards,

Gabriel-Alexandru SERBAN
Polymers & Fluids Team Leader

Enc : 4 Certificates.

RENAULT Property

Confidential C






License No: 2498

SCHEDULE A - LICENSE AGREEMENT


The marks referred to and licensed under the Agreement between API and GAZPROMNEFT-LUBRICANTS, LTD may be used through 31-Mar-2022 are as follows:

API SERVICE SYMBOL

Licensee is authorized to display the API Certification Mark on the following products:



BRAND NAME	SAE VISCOSITY GRADE	API SERVICE CATEGORY	CLASSIFICATION
BELAZ G-PROFI MINING	15W-40	CI-4/SL	
BELAZ G-PROFI MINING FF	15W-40	CI-4/SL	
GAZPROMNEFT DIESEL PREMIUM	10W-40	CI-4/SL	
GAZPROMNEFT DIESEL PREMIUM	15W-40	CI-4/SL	
GAZPROMNEFT DIESEL PRIORITET	15W-40	CH-4/SJ	
GAZPROMNEFT DIESEL ULTRA CS	10W-40	CK-4	CI-4 PLUS
GAZPROMNEFT PREMIUM C3	5W-30	SN	
GAZPROMNEFT PREMIUM C3	5W-40	SN	
GAZPROMNEFT PREMIUM JK	5W-20	SN	Resource Conserving
GAZPROMNEFT PREMIUM JK	5W-30	SN	Resource Conserving
GAZPROMNEFT PREMIUM L	10W-40	SL	
GAZPROMNEFT PREMIUM N	5W-40	SN	
G-ENERGY F SYNTH	5W-40	SN	
G-ENERGY F SYNTH C2/C3	5W-30	SN	
G-ENERGY F SYNTH EC	5W-20	SN	Resource Conserving
G-ENERGY FAR EAST	0W-20	SP	Resource Conserving, SN PLUS
G-ENERGY FAR EAST	5W-20	SN	Resource Conserving
G-ENERGY FAR EAST	5W-30	SN	Resource Conserving
G-ENERGY FAR EAST	10W-30	SN	Resource Conserving
G-ENERGY FE DX 1	5W-30	SN	Resource Conserving, SN PLUS
G-ENERGY FE DX1	5W-30	SP	Resource Conserving, SN PLUS
G-ENERGY FE DX1	5W-30	SN	Resource Conserving
G-ENERGY SERVICE LINE GMO	5W-30	SN	


 Manager - EOLCS/DEF/MOM
 Date: 01-Apr-2021

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API SERVICE SYMBOL

Licensee is authorized to display the API Certification Mark on the following products:



BRAND NAME	SAE VISCOSITY GRADE	API SERVICE CATEGORY	CLASSIFICATION
G-ENERGY SERVICE LINE W	5W-40	SN	
G-ENERGY SYNTHETIC ACTIVE	5W-40	SN	
G-ENERGY SYNTHETIC FAR EAST	5W-20	SN	Resource Conserving
G-ENERGY SYNTHETIC FAR EAST	5W-30	SN	Resource Conserving
G-ENERGY SYNTHETIC FAR EAST	10W-30	SN	Resource Conserving
G-PROFI FLJ	15W-40	CI-4	
G-PROFI GT	10W-40	CI-4	
G-PROFI GT LA	10W-40	CJ-4	
G-PROFI MSI	10W-40	CI-4/SL	
G-PROFI MSI PLUS	15W-40	CI-4/SL	
G-PROFI MSJ	5W-30	CJ-4/SN	
G-PROFI MSJ	10W-30	CJ-4/SN	
G-PROFI MSK	10W-30	CK-4	CI-4 PLUS


 Manager - EOLCS/DEF/MOM
 Date: 01-Apr-2021

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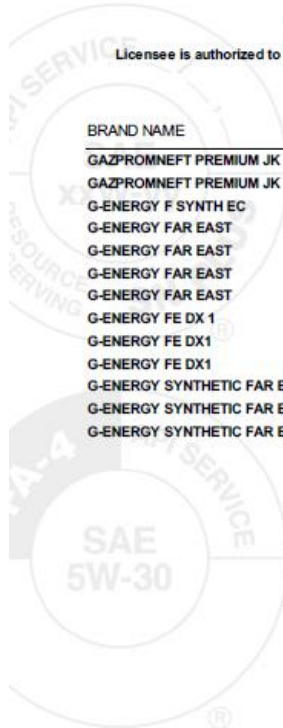
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API CERTIFICATION MARK

Licensee is authorized to display the API Certification Mark on the following products:

BRAND NAME	SAE VISCOSITY GRADE	ILSAC SPECIFICATION
GAZPROMNEFT PREMIUM JK	5W-20	GF-5
GAZPROMNEFT PREMIUM JK	5W-30	GF-5
G-ENERGY F SYNTH EC	5W-20	GF-5
G-ENERGY FAR EAST	0W-20	GF-6A
G-ENERGY FAR EAST	5W-20	GF-5
G-ENERGY FAR EAST	5W-30	GF-5
G-ENERGY FAR EAST	10W-30	GF-5
G-ENERGY FE DX 1	5W-30	GF-5
G-ENERGY FE DX1	5W-30	GF-6A
G-ENERGY FE DX1	5W-30	GF-5
G-ENERGY SYNTHETIC FAR EAST	5W-20	GF-5
G-ENERGY SYNTHETIC FAR EAST	5W-30	GF-5
G-ENERGY SYNTHETIC FAR EAST	10W-30	GF-5



Manager - EOLCS/DEF/MOM

Date: 01-Apr-2021

Engine Oil Licensing and Certification System

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Hydraulic Oils



ENSO OILS & LUBRICANTS



Parker Hannifin France SAS
142, rue de la Forêt
FR-74130 Contamine-sur-Arve
Tél. +33 (0)4 50 25 80 25
Fax +33 (0)4 50 03 67 37

Gazpromneft-Lubricants Ltd.
Att. To Mr. Nikolay Doroshenko
Bloc A, 14/3 Krzhizhanovskogo street
117218 Moscow
RUSSIA

Vierzon February 21st, 2018

Subject : Fluid Gazpromneft Hydraulic HVLP approval extension.

Kind attn : Mr. Nikolay Doroshenko,

Dear Sir,

With reference to the documents submitted, the subject fluid is approved for being included on our list DENISON approved fluids for :

HF0, HF1, HF2

Approval number : 517(1)

This fluid will be listed under the brand name...	Gazpromneft Hydraulic HVLP
The manufacturer to be listed as.....	Gazpromneft-Lubricants Ltd.
The ISO classification as.....	HV
The approved grade as.....	ISO VG 32, 46 & 68
The listing date will expire.....	May 2008
Test passed.....	Read across with files 514 & 513

Please note the product will be on the list until May 2023, the listing being for a limited period of 15 years. This last condition is due to the fact that many fluids on the list are no longer available and we try to make it a more usable document. The pumps technology is changing during this long period, the customers applications too also, this fluid will be removed of the list at this date without run a TSH20C test following the procedure TP-30533.
Hoping this will not cause any inconvenience

Best Regards

Philippe PARREAU
PARKER HANNIFIN France S.A.S
Consultant for
VPDE, Hydraulics Group, Denison Vane Pumps & Motors
(VPDE = Vane Pump Division Europe)
Call : +33 (0)6 73 46 50 26

Siège social : Parker Hannifin France SAS – 142, rue de la Forêt - FR-74130 Contamine sur Arve
Société par actions simplifiée - Au capital de 115 117 100 euros - Siren 448 863 688 - RCS Annecy 2004 B 80062 - APE 2812Z
Siren 448 863 688

The global leader in motion and control technologies



March 23, 2018

Mr. Nikolay Doroshenko
GAZPROMNEFT Lubricants Ltd.
14/3 Krzhizhanovskogo str.
117218 Moscow
Russia

Dear Mr. Doroshenko,

We have reviewed fluid properties, bench test results and the 35VQ25 test results of Gazpromneft Hydraulic HVLP 32, ISOVG 32.

Gazpromneft Hydraulic HVLP 32, ISOVG 32 is a blend of [REDACTED]

It is our opinion that Gazpromneft Hydraulic HVLP 32, ISOVG 32 meets the requirements of Eaton E-FDGN-TB002-E specification for hydraulic fluids recommended for Eaton products and brochure 03-401-2010 Rev 1. This can be read across with Gazpromneft Hydraulic HVLP 46, ISO VG 46, and Gazpromneft Hydraulic HVLP 68, ISO VG 68 grades.

Sincerely



Aaron D. Clark, M.S.
Manager Material Science COE
Senior Chemist
Hydraulics Group

Copy to
Eaton : Earl Daugherty, Anjeeve George
Evonik : Anatolij Smirnov

EATON



04/2020

ARBURG**Technische Freigabe eines Hydraulik-Fluids für die Verwendung in der Zentral-Hydraulik einer ARBURG Spritzgießmaschine**Hydraulik-Öl:
Gazpromneft Hydraulic HLP 46

HLP ISO VG46

Hersteller:
Gazpromneft - Luzants Ltd.
14/3 Kizilzhonovskogo str.
R-117218 MoskauTel.: +7(495)412-8959# 534
e-mail: Kitatin.AV@gazprom-neft.ru**Nennung:**

DIN 51524-2:2006	*Prüfungsteilgaben Hydraulikflüssigkeiten Hydraulikflüssigkeiten HLP (Mindestanforderungen) *Anforderungen müssen deutlich übertraffen werden!
DIN 51518:1993	*Schmierstoffe - ISO-Veklassifizierung für Flüssige Industrieschmierstoffe - Bei SGM nur ISO-VG 46 zugelassen!
DIN 51350-3:16.77	*Prüfung von Schmierstoffen, Prüfung im Shell-Wellenprüfapparat Bestimmung von Verschleißwerten mittels Schmierstoffe
DIN ISO 14826:1:2006	Zahnrad- FZG-Prüfverfahren Teil 1: FZG Prüfverfahren A6-293 zur Bestimmung der relativen Festigkeit von Schmierölen
DIN 51347-1:2000	*Prüfung von Schmierölen - Prüfung im Mischreibungsgerät mit dem Schmierstoffprüfer nach DIN 51347-1:2000
DIN ISO 3129:2005	Mineralverträglichkeit und sonstige Produkte - Bestimmung der Kompatibilität von Dampfölen und anderen Ölen - Impinger Verfahren
DIN 51412-1:2005	Prüfung von Mineralölen zur Bestimmung der elektrischen Leitfähigkeit - Teil 1: Laborverfahren
DIN 51508:1979	Prüfung von Mineralölen - Bestimmung der Neutralisationszahl - Farbindex-Test

Datenblatt:

Das Produkt- und Sicherheitsdatenblatt des V-T-Diagramm von Gazpromneft HLP46 liegt vor.

Freigaben von Komponentenherstellern:

Es besteht derzeit keine Freigabe von Hydraulik-Komponenten-Herstellern.

Zusätzliche ARBURG Bedingungen:

- Das Fluid basiert auf einem Grundöl aus Mineralöl und ist ein Erststadium.
- Das Additivsystem ist Na-, Cl-frei und borhaltig; Zn/Dtp Komponenten.
- YKA-Wert: min. 1800N, FZG-Schäufelkraftstufe: >12, Bugger-Wert: b > 20N/qmm
- Luftstabilitätsvermögen < 4min, Leiftfähigkeit > 300Stn (bei 40 °C), Neutralisationszahl < 0,8 nach 1000h
- Die Verträglichkeit mit Lagerwerkstoffen (Suntriballe) ist nachweisbar.
- Das Fluid ist verträglich mit in Hydraulik-Systemen gängigen Dichtungsmaterialien, insbesondere PU, NBR, FPM, PTFE, PTF-Bronze und Kohlefaser-Compounds wurden pass getestet.
- Das Fluid zielt Schutzmechanismen gegenüber Micro - Scratching
- Eine Verträglichkeitprüfung mit Castrol Hyspin DF Top 48 [7] und Shell Tellus S2 MA 46 [ZAF] muss durchgeführt werden. Sofern die Verträglichkeit nicht gegeben ist, muss die Hydraulikanlage gespült werden.
- Das Fluid ist löslich mit einem 3um-abs. Filterelement (ISO 4405: < 15% 200).

Dokumentation, zeitliche Beschränkung der Gültigkeit:

Angaben zu Änderungen, Anpassungen und die Nachweise der zugesagten Eigenschaften des freigegebenen Hydraulik-Fluids können verlangt werden. Aufgrund des technischen Fortschritts wird die technische Freigabe auf 5 Jahre beschränkt und nicht automatisch verlängert.

Die technische Freigabe ist gültig bis 01.04.2020

Arbeitsbereich
Lößburg, 21.04.2015
K. Heindel
- Freigabe
ARBURG HYDRAULIK + Co KG
Arth-Hehl-Straße - 72290 Lößburg
Tel: 0744033-0 - Fax: 0744033-3365
e-mail: contact@arburg.com

Arbeitsbereich
Moskau, 21.04.2015
A. Kitatin
Head of technical engineering division
Gazpromneft - Luzants Ltd.

ARBURG



ENSO OILS & LUBRICANTS

VIA GUZZANICA, 50 - 24040 STEZZANO - BG - ITALY -
TEL. 0039.035. 59.13.06 - FAX 0039.035.59.10. 96
E-mail: beltramelli@beltramelli.it

BELTRAMELLI S.p.A.
COSTRUZIONE E LAVORAZIONE
DI GRANDI IMPIANTI

Partita IVA IT 01554120160
Capitale Sociale: € 2.167.200,00 L.v. - R.E.A. BG 217032
Cod. fiscale e Reg. Impr. BG 01554120160 - Mcc. Ex. BG 029281

May 27th, 2010

GAZPROMNEFT-lubricants Ltd.
Moscow, Russia

Subject: Acknowledgment of lubricating fluids

Attn: Mr. Oblashchikov, Mr. Ivanov

Dear Sirs,

Hereby we inform that Beltramelli company base its acknowledgment for hydraulic fluids on Bosch-Rexroth requirements.

All hydraulic oils produced by Gaspromneft-lubricants which are officially approved by Bosch-Rexroth could be used in Beltramelli's industrial equipment. Suitable type and viscosity class of the oil should be chosen according Bosch-Rexroth recommendations.



Beltramelli Spa

Mauro Beltramelli



ENGEL



Datum: 31.01.2011
Zeichen: EMS/CW/SCHÖmi
Tel: +43 (0)50 620 6000
Fax: +43 (0)50 620 1 6000
E-mail: herbert.schoenberger@enge.at
Internet: www.engelglobal.com

ENGEL

Verwendung von Gazpromneft Hydrauliköl HLP 46 in ENGEL Spritzgießmaschinen
Use of Gazpromneft Hydraulic oil HLP 46 in ENGEL Injection Moulding Machines

Sehr geehrter Herr Rockmann / Dear Mr. Rockmann!

Wir bestätigen hiermit, dass das Hydrauliköl **Gazpromneft Hydraulic HLP 46** unseren Anforderungen entspricht und in unseren Spritzgießmaschinen eingesetzt werden kann.

*We hereby certify, that the hydraulic oil **Gazpromneft Hydraulic HLP 46** is meeting our specifications and can be used in our injection moulding machine.*

Diese Information können Sie an Ihre Kunden weitergeben.
This information can be handed over to your customers.

Mit freundlichen Grüßen! *With best regards,*

ENGEL AUSTRIA GmbH

Ing. H. Schönberger
Director Quality Assurance

ENGEL AUSTRIA GmbH
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Fax: +43 (0)50 620 6000
www.engelglobal.com

LG Linz, FN 78028 m
UID-Nr. AT120676805
DVR: 0496020

Bank Austria -
Creditorstat AG
Elsig Bank AG

IBAN: AT61250000110410000
IBAN: AT042011140210490360

SWIFT: BKAA11WWW
SWIFT: GBAATWWW



Metal Cutting | Composites

Former **MAG IAS, LLC** businesses including **Cincinnati, Giddings & Lewis, Forest - Liné, Liné Machines** and **Global Services** have joined the **Fives Group**.

2/02/2018

Company: "Gazpromneft-lubricants", LTD
14/3, Krzhizhanovskogo str., 117218, Moscow,
Russia

tel.: +7 (495) 642-99-69 ext. 2281
Agafonov.PYu@gazprom-neft.ru

Dear: Mr. Peter Agafonov

This letter is to inform you of the approval of the following products that have met the requirements for the Fives Cincinnati P-xx specifications.

<u>Product Name</u>	<u>Fives Cincinnati P-SPEC</u>	<u>Lab REF#</u>	<u>TRD</u>
Gazpromneft Hydraulic HZF-32	P-68	121717	1/02/18
Gazpromneft Hydraulic HZF-46	P-70	121817	1/09/18
Gazpromneft Hydraulic HZF-68	P-69	121917	1/09/18

If it is intended for these products to be placed in our Approved Lubricants listing, please advise us of the company and product name for the listing. The product tested meets Thermal Stability requirements and any chemical and physical tests that were conducted by Fives Cincinnati. The test datasheet is attached. **The lubricant supplier has evidence that the products generate passing results versus the full complement of requirements, if tested. These approvals are for a period of three years from the Test Report Date (TRD).** We are granting the approvals for this product based on the sample submitted to us for evaluation. Should any change or reformulation occur on this product, we are to be notified of these changes at once and the reformulated material must be submitted for evaluation and re-approval. Samplings of all approved products are made periodically from the field for evaluation. Should the product sampling disclose significant variations from that which has been approved, the product will immediately be removed from the Approved Products list.

Sincerely,

Douglas Decker
Lubricants Laboratory
Fives Cincinnati
2200 Litton Lane
Hebron, KY 41048 – United States
Tel: +1 (859) 534 4618
Douglas.Decker@fivesgroup.com
www.fivesgroup.com

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Bosch Rexroth Fluid Rating List für Rexroth-Hydraulikkomponenten (Pumpen und Motoren)* for Rexroth hydraulic components (pumps and motors)*

RDE 90245
Edition: 09.2017
Replaces: 03.2017

*Exception Häggunds products, see 15414











Die unten genannten Hydraulikflüssigkeiten sind von der Bosch Rexroth AG positiv bewertet. Sie erfüllen die Bedingungen nach RD 90235 für eine Listung in der Bosch Rexroth Fluid Rating List 90245.

Hydraulic fluids mentioned below have been rated favourably by Bosch Rexroth AG. The requirements for listing according to RE 90235 on the Bosch Rexroth Fluid Rating List 90245 are fulfilled.

Klassifizierung von Hydraulikflüssigkeiten / Hydraulic Fluids Classification

Hydraulikflüssigkeiten auf Basis von Mineralölen und artverwandten Kohlenwasserstoffen / Hydraulic fluids based on mineral oil and related hydrocarbons	HL (HL), HLP (HM), HVLP (HV) und weitere / and other
Umweltverträgliche Hydraulikflüssigkeiten / Environmentally acceptable hydraulic fluids	HETG, HEPG, HEES, HEPR
Schwerentflammbare Hydraulikflüssigkeiten – wasserfrei / Fire-resistant, water-free hydraulic fluids	HFDR, HFDU und weitere / and other
Schwerentflammbare Hydraulikflüssigkeiten – wasserhaltig / Fire-resistant, water-containing hydraulic fluids	HFAE, HFAS, HFB, HFC und weitere / and other

Hydraulikflüssigkeiten auf Basis von Mineralölen und artverwandten Kohlenwasserstoffen / Hydraulic fluids based on mineral oil and related hydrocarbons

Hersteller Manufacturer	Fluidname fluid brand name	Legend	ISO VG			Kategorie Category	Gültigkeits- datum bis Valid until
			32	46	68		
 Fuchs Schmierstoffe GmbH	Renolin B HP	1 ● ● ●				HLP (HM)	2021/03
	Renolin B HP Plus	1 ● ● ●				HLP (HM)	2021/01
 Gazpromneft – Lubricants Ltd.	BELAZ G-Profi Hydraulic Winter HVLP 32	1 ● – –				HVLP (HV)	2021/12
	BELAZ G-Profi Hydraulic Summer HVLP 46	1 – ● –				HVLP (HV)	2021/12
	Hydraulic HLP	1 ● ● ●				HLP (HM)	2021/05
	Hydraulic HVLP	1 ● ● –				HVLP (HV)	2021/12
 Hermann Bantleon GmbH	Avia Fluid RSL Plus	1 ● ● ●				HLP (HM)	2021/01
 Hindustan Petroleum Corporation Limited	ENKLO HLP T PLUS	1 ● ● ●				HLP (HM)	2021/01
 Liqui Moly GmbH	Liqui Moly Hydrauliköl HyPER 5G1	1 ● ● ●				HLP (HM)	2021/01
 Petrol Ofisi A.S.	Hydro Oil HD	1 ● ● ●				HLP (HM)	2021/04
 Shell International Petroleum Company	Shell Tellus S2MX	1 ● ● ●				HLP (HM)	2021/03
	Shell Tellus S2VX	1 ● ● ●				HVLP (HV)	2022/01
 SRS Schmierstoff Vertrieb GmbH	Wioian HB	1 ● ● ●				HLP (HM)	2021/03
 Petronas Lubricant International	Hydraulic Plus	1 ● ● ●				HLP (HM)	2021/09
 Tongyi Petroleum Chemical Co., Ltd.	Fulmer Hydraulic Oil	1 ● ● ●				HLP (HM)	2021/01

Legende / Legend
1 Zinkhaltig / with zinc
2 Zinkfrei / without zinc

RDE 90245/09.2017, Bosch Rexroth AG

rexroth
A Bosch Company

Mr. Peter Agafonov
R&D Manager
Gaspromneft-lubricants, Ltd
14/3, Krzhizhanovskogo St.
117218 Moscow
Russia

Edegem, 15 August 2020

Statement

I hereby declare that Gaspromneft Reductor F Synth, lubricant from Gaspromneft-lubricants Ltd, has been approved to be used in Hansen industrial gear units, series HP1, HP2, HPP, P4, M4ACC and M5CT for viscosity grades and formulations as in the table below,

ISO Viscosity Grade	Formulation Gaspromneft-lubricants
ISO VG 150	GPN-19-02-19-06
ISO VG 220	GPN-19-02-19-07
ISO VG 320	GPN-19-02-19-08
ISO VG 460	GPN-19-02-19-09

Gaspromneft Reductor F Synth from Gaspromneft-lubricants Ltd will be added to the list of approved lubricants in the next edition of the standard technical manual for Hansen industrial gear units.

Until publication of this technical manual, this letter may be used as approval document.

This letter remains valid for a period of maximum one year after issue date (see above) and under the condition that the formulation as stated in the request letter dated June 3rd 2020 is not changed.

Daniël Verbeek
R&D Technology Manager
Hansen Industrial Transmissions NV



Ref. RnD.20.0041-B

Sumitomo Drive Technologies




Hansen Industrial Transmissions nv
R.P.R. - VAT BE 0823.115.472





FLENDER

FLENDER GEAR UNITS

Approval of Gear Oil

No. AGPA36-20180822

Valid until: 8 April 2023

under the prerequisite that by Flender no negative distinctive features of the oil were stated in the field

For the gear oil **Gazpromneft Reductor F-Synth**

with the base oil

nominal viscosity ISO VG: **150 – 220 – 320 – 460**

for sale by the company **Gazpromneft Lubricants Ltd.**

the compliance with the CLP quality in accordance with DIN 51517-3 is guaranteed by the selling company.

The selling company has had performed the following tests according to the

Specification of oil approvals for FLENDER gear units

(Rev. 16 for Helical-, Bevel-, Worm-, Planetary- and Mainline gear units)

with the mentioned oil. The test results were presented to Flender.

- FZG scuffing test (A/8,3/90) in accordance with DIN ISO 14635-1
- FE-8-rolling bearing test (D-7,5/80-80) in acc. with DIN 51619-3
- Filtrability test in accordance with test description FFT 7300
- Compatibility with interior and outer paintings used with Flender gear units
- Compatibility with liquid sealing compound
- Compatibility with elastomer seal material - static test & dynamic test -
- Flender oil foaming test according to test description GG-V 425 and ISO 12162
- Micropitting test in accordance with FVA 54 VII

According to the presented test results, the conditions demanded by Flender were satisfied.

We recommend the using of the above mentioned oil for our following gear units:

Helical-, Bevel- and Planetary gear units

Buckell, 22-06-2018

Dr.-Ing. Alexander Furtmann
Flender GmbH
TI CALC

Dr.-Ing. Ralf Möllendorf
Flender GmbH
TI CALC

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