

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

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

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



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

7/17/18

Gaspromneft-Lubricants Ltd.
Bloc A, 14/3, Krhizhanovskogo St.
117218 Moscow
Russia

Dear: Mr. Nikolay Doroshenko

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 HVLP 32	P-68	102517	10/27/17

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



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

May 19, 2017

[Redacted]

Dear: Angelika

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 HVLP 68	P-69	52517	5/19/17
Gazpromneft Hydraulic HVLP 46	P-70	52717	5/19/17

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,

William Roe

Lubricants Laboratory/Run-Off Technician

Fives Cincinnati

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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 HVL**P 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 HVL P
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 T6H20C 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)
Cell : +33 (0)6 75 48 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

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Mr. Peter Agafonov
14/3 Krzhizhanovskogo str.
117218 Moscow
Russia

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April 10th 2017
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Confirmation

GAZPROMNEFT Hydraulic HVLP 32 and 46

based on the fluid formulation

Listing of hydraulic fluids on the "Bosch Rexroth Fluid Rating List" RDE 90245

Dear Sir/Madam

You have submitted in their entirety the documents and retained samples required for the fluid rating according to the document "Conditions – RDE 90245" of Bosch Rexroth AG. The above mentioned hydraulic fluid formulation complies with the requirements of the Bosch Rexroth Fluid Rating 90235 and the rating has been concluded successfully accordingly the fluid mentioned is eligible to be included in the RDE 90245.

In case, you should wish to include this fluid in RDE 90245, please sign the document "Permission". Please note, that the fluid will be listed and published on the RDE 90245 only with your signed permission. In order to uphold an effective rating the "Conditions – RDE 90245" must be complied with continuously during the below mentioned validity period. The admission of the fluid to this list shall not be construed as any mandatory or binding recommendation for applicant or any other third party (e.g. machine manufacturer) concerning the respective fluid.

Details of the hydraulic fluid that fulfilled condition of the Bosch Rexroth Fluid Rating 90235 and it is listed on the "Bosch Rexroth Fluid Rating List" RDE 90245.

Rating number	[REDACTED]
Manufacturer	Gazpromneft - Lubricants Ltd.
Fluid brand name	Hydraulic HVLP
Manufacturing location	1. Branch of Gazpromneft Lubricants, ltd. Omsk Lubricant Plant, 644040, Russia, Omsk, Gubkina av.,1 2. "Gazpromneft MLP" CJSC 141191, Russia, Fryazino, Ozernaya str., 6A
Fluid ID-Number	[REDACTED] Gazpromneft Hydraulic HVLP-32 / Gazpromneft Hydraulic HVLP-46 [REDACTED] [REDACTED] [REDACTED]
ISO VG grade	32 and 46
Category of fluid	HVLP (HV)
Validity period	April 10 th 2017 – December 19 th 2021

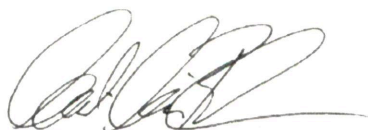
The above named hydraulic fluid or fluid formulation can be published in the technical data sheet of the fluid or on other publications with the following note:

- **Meets the requirements of Bosch Rexroth RDE 90235**
or
- **Bosch Rexroth Fluid Rating List RDE 90245**

In respect of any advertising purposes the applicant respects the conditions defined in the general conditions for fluid rating process. It shall be emphasized that the provision of a copy of this "confirmation" shall not be considered a marketing activity, which is subject to prior approval by Bosch Rexroth. For any other marketing activities applicant commits to inform Bosch Rexroth in advance.

In case of any publication the defined wording (c.f. RDE90245) must be used by applicant.

Yours sincerely



Mr. Karl-Heinz Blum
Bosch Rexroth AG
Horb am Neckar, 10.04.2017



Mr. Klaus Ellenrieder
Bosch Rexroth AG
Elchingen, 10.04.2017

Remark:

The document "Permission" can be found in the download area of the Bosch Rexroth Fluidrating website.