



Parker Hannifin France SAS  
**Vane Pump Division**  
14 route du Bois Blanc – BP 539  
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**GAZPROMNEFT-Lubricants Ltd.**  
**Att Mr. Treskov Yaroslav**  
**Krzhizhanovskogo street 14**  
**Building 3, block A, 6<sup>th</sup> floor**  
**117218 MOSCOW**  
**RUSSIA**

Vierzon November 24th, 2010

Subject : Fluid **Gazpromneft Hydraulic HVLP**

Kind attn : Mr. Treskov Yaroslav

Dear Sir,

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

**HF0, HF1, HF2**  
**Approval number : 423(1)**

This fluid will be listed under the brand name...	<b>Gazpromneft Hydraulic HVLP</b>
The manufacturer to be listed as.....	<b>GAZPROMNEFT-Lubricants Ltd.</b>
The ISO classification as.....	<b>HV</b>
The approved grade as.....	<b>ISO VG 32,46 &amp; 68</b>
The listing date will be.....	<b>October 2006</b>
Test passed.....	<b>Read across with files 262 &amp; 306</b>

Please note the product will be on the list until **October 2016**, the listing being for a limited period of 10 years. It can be extended for an additional 5 years by notifying us in writing that the fluid is still actively marketed. That notice should occur during the last six months of the initial listing period. This later 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.  
Hoping this will not cause any inconvenience

Best Regards

Philippe Parreau  
Consultant for  
Parker Hannifin France SAS, Vane Pump Division

**Siège Social /Headquarters**  
Parker Hannifin France SAS  
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Société par actions simplifiée  
Au capital de 53 630 360 euros  
Siren 448 863 688  
RCS Thonon-les-Bains 2003 B 240  
APE 291D

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## Parker Denison approved fluids list


**DENISON** Hydraulics

Manufacturer	Commercial name	ISO VG 32	ISO VG 46	ISO VG 68	Ashless	PAO	HF0	HF1	HF2	HF3	HF4	HF5	HF6	HM	HV	HETG	HEPG	HEES	Food Grade	HFAE	HFAS	HFB	HFC	HFDR	HFDU	UTTO / THF
ExxonMobil	Mobil SHC 500 series	X	X	X				X	X						X											
ExxonMobil	Nuto H	X	X	X			X	X	X					X												
ExxonMobil	UNIVIS N	X	X	X			X	X	X						X											
Fiske Brothers Refining Co.	Lubriplate HO	X	X	X			X	X	X					X												
FL SELENIA	Akcela AW Hydraulic Fluid 46 Steyr-case		X				X	X	X					X												
FL SELENIA	Akros Idraulic	X		X			X	X	X					X												
FL SELENIA	Akros Idraulic HV		X				X	X	X						X											
FL SELENIA	Ambra Hydraulicar			X			X	X	X					X												
FL SELENIA	Ambra Hydrosystem	X		X			X	X	X					X												
FL SELENIA	Ambra Idraulic HV		X				X	X	X						X											
FL SELENIA	Arbor Hydraulic			X			X	X	X					X												
FL SELENIA	Arbor Hydraulic HV		X				X	X	X						X											
FL SELENIA	Blitz Idraulic Fluid 310	X					X	X	X					X												
FL SELENIA	Hidrobak / S	X	X	X			X	X	X					X												
FL SELENIA	Hidrobak / S7	X	X				X	X	X					X												
FL SELENIA	Hidrobak HP			X			X	X	X						X											
FL SELENIA	Hidrobak HV/UF		X	X			X	X	X						X											
FL SELENIA	Hidrosistem HV		X				X	X	X						X											
FL SELENIA	Idraulicar HVI		X	X			X	X	X						X											
FL SELENIA	Tutela Idraulicar AP31, AP46, AP51	X	X	X			X	X	X					X												
FUCHS	RENOFLUID TF 1500	X					X	X	X					X												
FUCHS	RENOLIN B Series	X	X	X			X	X	X					X												
FUCHS	RENOLIN D Series	X	X	X			X	X	X					X												
FUCHS	RENOLIN LIFT Series	X	X	X			X	X	X					X												
FUCHS	RENOLIN Xtreme Temp.	X	X				X	X	X						X											
Fujian Laik Petrochemical Co. Ltd.	Laik AW Hydraulic Oil	X	X	X			X	X	X					X												
GAZPROMNEFT-Lubricants Ltd.	Gazpromneft Hydraulic HZF	X	X	X	X		X	X	X					X												
GAZPROMNEFT-Lubricants Ltd.	Gazpromneft Hydraulic HLP	X	X	X			X	X	X					X												
GAZPROMNEFT-Lubricants Ltd.	Gazpromneft Hydraulic HVLP	X	X	X			X	X	X						X											
Great wall Oil Group,CHINA SINOPEC	Great wall HP AW	X	X	X			X	X	X					X												
Gulf Oil International	Gulf Harmony AW	X	X	X			X	X	X					X												
Gulf Oil International	Gulf Harmony EF		X						X				X													
Gulf Oil International	Gulf Harmony ZF	X	X	X	X		X	X	X					X												
Imperial Oil	Nuto H	X	X	X			X	X	X					X												
Imperial Oil	UNIVIS N	X	X	X					X						X											
JIANGSU LOPAL Petrochemical Co Ltd	LOPAL H600, G660, G690	X	X	X			X	X	X					X												
JSC "AZMOL"	Azmol I-G-S	X	X	X			X	X	X					X												
JSC NK Select	SL-Hydraulic HLP	X	X	X			X	X	X					X												
JSC NK Select	SL-Hydraulic HVLP	X	X	X			X	X	X						X											
Kuwait Petroleum Company	Haydn	X	X	X			X	X	X					X												
Kuwait Petroleum Company	Hogarth		X				X	X	X						X											

Are removed of this list fluids over 10 years old.

\* Fluid under field or laboratory test with acceptable performances on Denison vane pump.

\*\* Can be used up to 70°C.

\*\*\* HF2

Been evaluated TP 30532

TP 30533

TP 30338

**Reference: Gazpromneft Hydraulic HVLP**

12<sup>th</sup> September 2010

Dear Sirs,

Afton Chemical Ltd. has conducted testing on Gazpromneft Hydraulic HVLP fluid based on viscosity index modifier in Gazpromneft Group I base stock. Testing has given passing performance for Gazpromneft Hydraulic HVLP-32, Gazpromneft Hydraulic HVLP-46, & Gazpromneft Hydraulic HVLP-68 against the following specifications:

- DIN 51524 part III
- Parker HF-0
- CM P-68, P-69, & P-70

Data against DIN 51524 part III & Parker HF-0 is detailed in the following 3 pages of this letter. A separate approval letter has been obtained from CM. An official Parker HF-0 approval letter with Gazpromneft Hydraulic HVLP branding is expected shortly.

Testing is in ongoing against Eaton 35VQ25 pump test. In addition Bosch Rexroth 90220 approval is in progress and is expected in the near future.

Yours Faithfully



Katie Richardson  
Customer Technical Service Chemist  
Afton Chemical Ltd.



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Cert No. FS25775



Treskov Yaroslav  
LLC Gazpromneft-lubricants  
r.308/4, Profsouznaya str 125A°  
Moscow, 117647, Russia

August 16, 2010

Dear Mr. Yaroslav:

This letter is to inform you of the approvals of the following products which have met the requirements for the Cincinnati Machine specifications and will appear in our Approved Lubricants listings as shown below unless you notify us otherwise.

SUPPLIER NAME  
**LLC Gazpromneft-lubricants**

<u>PRODUCT NAMES</u>	<u>CM P-SPEC</u>
<b>Gazpromneft Hydraulic HVLP 32</b>	<b>P-68</b>
<b>Gazpromneft Hydraulic HVLP 68</b>	<b>P-69</b>
<b>Gazpromneft Hydraulic HVLP 46</b>	<b>P-70</b>

We are granting the approvals for these products based on the samples submitted to us for evaluation. Should any changes or reformulations occur, we are to be notified of these changes and the reformulated product must be submitted for evaluation and

Sampling 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 listing. **These approvals are for a period of three years from the Test Report Date of 7/20/10.**

Sincerely,

**Dietrich Neumann**  
**MAG Cincinnati Lubricants Lab**  
[dietrich.neumann@mag-ias.com](mailto:dietrich.neumann@mag-ias.com)

CC: Katie Richardson  
Afton Chemical Ltd.

# Hydraulic Fluids on a Mineral Oil Basis for Axial Piston Units

**RE 90220-01/12.10**  
 Replaces: 08.10

Table of mineral oil included in groups HLP(HM) and HVLP to DIN 51524, parts 2 and 3  
 The following table is not necessarily exhaustive and no recommendation is implied.  
 Subject to revision!

ISO- Viskositäts- klasse	VG 22	VG 32		VG 46		VG 68		VG 100
	HLP	HVLP	HLP	HVLP	HLP	HVLP	HLP	HLP
ADDINOL	Hydraulic Oil HLP 22	Hydraulic Oil HLVP 32	Hydraulic Oil HLP 32	Hydraulic Oil HVLP 46	Hydraulic Oil HLP 46	Hydraulic Oil HVLP 68	Hydraulic Oil HLP 68	Hydraulic Oil HLP 100
ARAL	Aral Vitam GF 22	Aral Vitam HF 32	Aral Vitam GF 32	Aral Vitam HF 46	Aral Vitam GF 46		Aral Vitam GF 68	Aral Vitam GF 100
AVIA	Avia Fluid RSL 22	Avia Fluid HVI 32	Avia Fluid RSL 32	Avia Fluid HVI 46	Avia Fluid RSL 46 Avia Fluid ZAD 46	Avia Fluid HVI 68	Avia Fluid RSL 68	Avia Fluid RSL 100
BELGIN MADENI YAGLAR			HIDROTEX BS32		HIDROTEX BS46		HIDROTEX BS68	HIDROTEX BS100
Best Lubricant Blending LTD			Hercules (LISHI) Zona Hydraulic Oil VG 32		Hercules (LISHI) Zona Hydraulic Oil VG 46		Hercules (LISHI) Zona Hydraulic Oil VG 68	Hercules (LISHI) Zona Hydraulic Oil VG 100
BP	Energol HLP-HM 22  Bartran 22  Bartran HVX 22	Bartran HV 32  Bartran HVX 32	Energol HLP-HM 32  Bartran 32  Autran MBX	Bartran HV 46  Bartran HVX 46	Energol HLP-HM 46  Bartran 46  Bartran SHF-S46	Bartran HV 68  Bartran HVX 68	Energol HLP-HM 68  Bartran 68	Energol HLP-HM 100  Bartran 100
Brugarolas	Fluid Drive HM-22	Beslux Divol HV 32	Fluid Drive HM-32	Beslux Divol HV 46	Fluid Drive HM-46	Beslux Divol HV 68	Fluid Drive HM-68	Fluid Drive HM-100
Bucher & CIE Motorex AG	COREX HLP 22	COREX EP VI 360	COREX HLP 32	COREX EP VI 510 COREX HV 515 Alpine Granat HV 515	COREX HLP 46	COREX EP VI 610	COREX HLP 68	COREX HLP 100
CALTEX	Rando HD 22	Rando HDZ 32	Rando HD 32	Rando HDZ 46	Rando HD 46	Rando HDZ 68	Rando HD 68	Rando HD 100
CASTROL	HYSPIN AWS 22	HYSPIN AWH 32	HYSPIN AWS 32 Paradene 32 AW TQ-D	HYSPIN AWH 46	HYSPIN AWS 46 Paradene 46 AW	HYSPIN AWH 68	HYSPIN AWS 68 Paradene 68 AW	HYSPIN AWS 100

ISO Viscosity Class	VG 22	VG 32		VG 46		VG 68		VG 100
Manufacturer ↓	HLP	HVLP	HLP	HVLP	HLP	HVLP	HLP	HLP
CEPSA LUBRICANTES, S.A.		CEPSA HIDROSTAR HVLP 32		CEPSA HIDROSTAR HVLP 46	CEPSA Hidraulico HM 46	CEPSA HIDROSTAR HVLP 68		
CHEVRON	Hydraulic Oil AW 22  Chevron Rando HD ISO 22	Mechanism LPS 32	Hydraulic Oil AW 32  Chevron Rykon Oil AW ISO 32 Chevron Rando HD ISO 32	Mechanism LPS 46	Hydraulic Oil AW 46  Chevron Rykon Oil AW ISO 46 Chevron Rando HD ISO 46	Mechanism LPS 68	Hydraulic Oil AW 68  Chevron Rykon Oil AW ISO 68 Chevron Rando HD ISO 68	Hydraulic Oil AW 100  Chevron Rando HD ISO 100
COFRAN	Cofraline extra 22 S	Hydroline Equigrade 32 Speziale 32	Cofraline extra 32 S	Hydroline Equigrade 46	Cofraline extra 46 S	Hydroline Equigrade 68 Speziale 68	Cofraline extra 68 S	Cofraline extra 100 S
CONOCO			Hydroclear AW Hydraulic ISO 32  Super Hydraulic Oil ISO 32		Hydroclear AW Hydraulic ISO 46  Super Hydraulic Oil ISO 46		Hydroclear AW Hydraulic ISO 68	
ENGEN		Engen TQH 10/32	Engen TQH 20/32	Engen TQH 10/46	Engen TQH 20/46	Engen TQH 10/68	Engen TQH 20/68	Engen TQH 20/100
ENI S.p.A.	OSO 22 ARNICA 22 Precis HLP 22 Autol Hys 22	ARNICA 32	OSO 32  Precis HLP 32	ARNICA 46 H Lift 46  Autol Hys 46	OSO 46  Precis HLP 46	ARNICA 68	OSO 68  Precis HLP 68 Autol Hys 68	OSO 100
ESSO	NUTO H 22	UNIVIS N 32	NUTO H 32  Hydraulic Oil HLP 32	UNIVIS N 46	NUTO H 46  Hydraulic Oil HLP 46	UNIVIS N 68	NUTO H 68  Hydraulic Oil HLP 68	NUTO H 100
EUROL	Eurol HLP 22	Eurol HV 32	Eurol HLP 32 HLP 32 VA	Eurol HV 46	Eurol HLP 46 HLP 46 VA	Eurol HV 68	Eurol HLP 68 HLP 68 VA	Eurol HLP 100
FUCHS	RENOLIN MR 5 VG 22  RENOLIN B5 VG 22  RENOLIN ZAF 22 B	RENOLIN MR 32 MC  RENOLIN B 32 HVI  RENOLIN ZAF 32 MC	RENOLIN MR 10 VG 32  RENOLIN B10 VG 32  RENOLIN ZAF 32 B	RENOLIN MR 46 MC  RENOLIN B 46 HVI  RENOLIN ZAF 46 MC	RENOLIN MR 15 VG 46  RENOLIN B15 VG 46  RENOLIN ZAF 46 B	RENOLIN MR 68 MC  RENOLIN B 68 HVI  RENOLIN ZAF 68 MC	RENOLIN MR 20 VG 68  RENOLIN B20 VG 68  RENOLIN ZAF 68 B	RENOLIN MR 30 VG 100  RENOLIN B30 VG 100  RENOLIN ZAF 100 B
Galp Energia					Galp HIDROLEP 46			

ISO Viscosity Class	VG 22	VG 32		VG 46		VG 68		VG 100
	Manufacturer ↓	HVLP	HLP	HVLP	HLP	HVLP	HLP	HLP
Hessol Lubrication	Hydraulic Oil HLP 22	Hydraulic Oil HVLP 32	Hydraulic Oil HLP 32	Hydraulic Oil HVLP 46	Hydraulic Oil HLP 46	Hydraulic Oil HVLP 68	Hydraulic Oil HLP 68	Hydraulic Oil HLP 100
Gazpromneft Lubricants		Gazpromneft Hydraulic HVLP 32	Gazpromneft Hydraulic HLP 32	Gazpromneft Hydraulic HVLP 46	Gazpromneft Hydraulic HLP 46 Gazpromneft Hydraulic HD 46		Gazpromneft Hydraulic HLP 68	
KLÜBER			LAMORA HLP 32		LAMORA HLP 46		LAMORA HLP 68	
Kompressol	Kompressol CH 22	Kompressol CH 32 V	Kompressol CH 32	Kompressol CH 46 V	Kompressol CH 46	Kompressol CH 68 V	Kompressol CH 68	Kompressol CH 100
KUWAIT Petroleum Q8	Q8 Haydn 22	Q8 Händel 32 Heller 32	Q8 Haydn 32 Holst 32 Hydraulik S32	Q8 Hoffmeister HVLP-D-46 Q8 Händel 46 Heller 46	Q8 Haydn 46 Holst 46 Hydraulik S46	Q8 Händel 68 Heller 68	Q8 Haydn 68 Holst 68 Hydraulik S68	Q8 Haydn 100
LIQUI MOLY	HLP 22 ISO	HVLP 32 ISO	HLP 32 ISO	HVLP 46 ISO	HLP 46 ISO	HVLP 68 ISO	HLP 68 ISO	HLP 100 ISO
LUBRICANT COMPANY, SINOPEC CORP.			SINOPEC HM32		SINOPEC HM46 SINOPEC METALLURGY SPECIAL HYDRAULIC OIL		SINOPEC HM68	
LUKOIL Lubricants Company			LUKOIL GEYSER ST 32 LUKOIL GEYSER ZF 32		LUKOIL GEYSER ST 46 LUKOIL GEYSER ZF46		LUKOIL GEYSER ST 68 LUKOIL GEYSER ZF 68	
LOTOS Oil					Hydromil Super L-HM 46			
MOBIL	Mobil DTE 22 Mobil DTE Excel 22	Mobil DTE 13 M Mobil DTE 10 Excel 32	Mobil DTE 24 Mobil DTE Excel 32	Mobil DTE 15 M Mobil DTE 10 Excel 46	Mobil DTE 25 Mobil DTE Excel 46	Mobil DTE 16 M Mobil DTE 10 Excel 68	Mobil DTE 26 Mobil DTE Excel 68	Mobil DTE 27 Mobil DTE Excel 100
MOL RT Ungarn	MOL HYDRO HME22	MOL HYDRO HV32	MOL HYDRO HM32 HME32 HLPD32	MOL HYDRO HV46	MOL HYDRO HM46 HME46 HLPD46	MOL HYDRO HV68	MOL HYDRO HM68 HME68 HLPD68	MOL HYDRO HME100
Morris Lubricants			LIQUIMATIC 4		LIQUIMATIC 5		LIQUIMATIC 6	
MRD	PENNASOL HLP 22	PENNASOL HVLP 32	PENNASOL HLP 32	PENNASOL HVLP 46	PENNASOL HLP 46	PENNASOL HVLP 68	PENNASOL HLP 68	PENNASOL HLP 100
ÖMV	HLP 22	HLP-M 32	HLP 32 ZNF 32	HLP-M 46 HLP-S	HLP 46 ZNF 46	HLP-M 68	HLP 68 ZNF 68	HLP 100

ISO Viscosity Class	VG 22	VG 32		VG 46		VG 68		VG 100
Manufacturer ↓	HLP	HVLP	HLP	HVLP	HLP	HVLP	HLP	HLP
Orlen Oil					Hydrol® L-HM/ HLP 46			
PAKELO	Raisol Oil 22		Raisol Oil 32		Raisol Oil 46		Raisol Oil 68	Raisol Oil 100
PANOLIN	HLP 22 HLP Plus 22	HLP Universal 32	HLP 32 HLP Plus 32	HLP Universal 46	HLP 46 HLP Plus 46	GP 55	HLP 68 HLP Plus 68	HLP 100
PETRO-CANADA	HYDREX AW 22 HYDREX MV 22	HYDREX MV 32 ENVIRON MV32 / Premium ECO 32	HYDREX AW 32 ENVIRON AW 32 Purity FG AW 32	HYDREX XV ENVIRON MV46 / Premium ECO 46	HYDREX AW 46 ENVIRON AW 46 Purity FG AW 46	HYDREX MV 60	HYDREX AW 68 ENVIRON AW 68 Purity FG AW 68	HYDREX AW 100 Purity FG AW 100
PETROFER	Isolubric VG 22		Isolubric VG 32		Isolubric VG 46		Isolubric VG 68	Isolubric VG 100
REPSOL	Telex E 22	Telex HVLP 32	Telex E 32	Telex HVLP 46	Telex E 46	Telex HVLP 68	Telex E 68	Telex HVLP 100
SHELL (Previous name)	Shell Tellus S2 M 22 (Shell Tellus 22) Shell Tellus S2 MA 22 (Shell Tellus DO 22) Shell Tellus S 22	Shell Tellus S2 V 32 (Shell Tellus T 32) Shell Tellus S2 VA 32 (Shell Tellus TD 32) Shell Tellus S3 V 32 (Shell Tellus STX 32)	Shell Tellus S2 M 32 (Shell Tellus 32) Shell Tellus S2 MA 32 (Shell Tellus DO 32) Shell Tellus S 32 Shell Tellus S4 ME 32 (Shell Tellus EE 32) Shell Tellus SX-Z 32	Shell Tellus S2 V 46 (Shell Tellus T 46) Shell Tellus S2 VA 46 (Shell Tellus TD 46) Shell Tellus S3 V 46 (Shell Tellus STX 46)	Shell Tellus S2 M 46 (Shell Tellus 46) Shell Tellus S2 MA 46 (Shell Tellus DO 46) Shell Tellus S 46 Shell Tellus S4 ME 46 (Shell Tellus EE 46) Shell Tellus SX-Z 46	Shell Tellus S2 V 68 (Shell Tellus T68) Shell Tellus S2 VA 68 (Shell Tellus TD 68) Shell Tellus S3 V 68 (Shell Tellus STX 68)	Shell Tellus S2 M 68 (Shell Tellus 68) Shell Tellus S2 MA 68 (Shell Tellus DO 68) Shell Tellus S 68 Shell Tellus S4 ME 68 (Shell Tellus EE 68) Shell Tellus SX-Z 68	Shell Tellus S2 M 100 (Shell Tellus 100) Shell Tellus S2 MA 100 (Shell Tellus DO 100) Shell Tellus S 100
STATOIL	HYDRAWAY HMA 22	HYDRAWAY HVXA 32	HYDRAWAY HMA 32	HYDRAWAY HVXA 46	HYDRAWAY HMA 46	HYDRAWAY HVXA 68	HYDRAWAY HMA 68	HYDRAWAY HMA 100
Strub & Co Schmiertechnik CH-Reiden	Vulcolube HLP 22	Vulcolube EP VI 32	Vulcolube HLP 32	Vulcolube EP VI 46	Vulcolube HLP 46	Vulcolube EP VI 68	Vulcolube HLP 68	Vulcolube HLP 100
TEXACO	Rando HD 22	Rando HDZ 32	Rando HD 32	Rando HDZ 46	Rando HD 46	Rando HDZ 68	Rando HD 68	Rando HD 100
Tide Water Oil Co. India Limited							VEEDOL AVALON HLP 68 SC-6	
LLC TNK Lubricants		TNK Hydraulic HVLP 32	TNK Hydraulic HLP 32 TNK Hydraulic ZF 32	TNK Hydraulic HVLP 46	TNK Hydraulic HLP 46 TNK Hydraulic ZF 46	TNK Hydraulic HVLP 68	TNK Hydraulic HLP 68 TNK Hydraulic ZF 68	



ISO Viscosity Class	VG 22	VG 32		VG 46		VG 68		VG 100
	Manufacturer ↓ HLP	HVLP	HLP	HVLP	HLP	HVLP	HLP	HLP
TOTAL FINA ELF	Total Azolla ZS 22	Total Equivis ZS 32	Total Azolla ZS 32  Total Azolla DZF 32	Total Equivis ZS 46	Total Azolla ZS 46  Total Azolla DZF 46	Total Equivis ZS 68	Total Azolla ZS 68  Total Azolla DZF 68	Total Azolla ZS 100
TRIBOL	Tribol 1840/22 Tribol 943 AW 22		Tribol 771  Tribol 1840/32 Tribol 943 AW 32		Tribol 772  Tribol 1840/46 Tribol 943 AW 46		Tribol 773  Tribol 1840/68 Tribol 943 AW 68	Tribol 775
UNIL	HFO 22		HFO 32		HFO 46		HFO 68	HFO 100
Van Meeuwen	Black Point Turbin 22	Black Point Turbin HVI 32	Black Point Turbin 32	Black Point Turbin HVI 46	Black Point Turbin 46	Black Point Turbin HVI 68	Black Point Turbin 68	Black Point Turbin 100
Valpercan Spain		Hidroval 32 HV  Vesta HV 32	Hidroval 32 HLP	Hidroval 46 HV  Vesta HV 46	Hidroval 46 HLP	Hidroval 68 HV  Vesta HV 68	Hidroval 68 HLP	Hidroval 100 HLP
SK Energy			ZIC SUPERVIS AW 32		ZIC SUPERVIS AW 46			
SRS	WIOLAN HS 22  WIOLAN HX 22	WIOLAN HV 32	WIOLAN HS 32  WIOLAN HX 32	WIOLAN HV 46	WIOLAN HS 46  WIOLAN HX 46	WIOLAN HV 68	WIOLAN HS 68  WIOLAN HX 68	WIOLAN HS 100  WIOLAN HX 100
YORK Ginouves	YORK 772 VG 22	YORK 775 VG 32  YORK 779 VG 32	YORK 772 VG 32	YORK 775 VG 46  YORK 779 VG 46	YORK 772 VG 46	YORK 775 VG 68  YORK 779 VG 68	YORK 772 VG 68	YORK 772 VG 100
XADO Germany				XADO Atomic Oil VHLP46				
SAE- Motorenöle	SAE 5 W		SAE 10 W	SAE 10 W 30		SAE 10 W 30	SAE 20 W 20	SAE 30

Bosch Rexroth AG  
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The data specified above only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The given information does not release the user from the obligation of own judgment and verification. It must be remembered that our products are subject to a natural process of wear and aging.

Subject to change.

February 23, 2011

Mr. Yaroslav Treskov  
c/o Mr. Phil Rohrer  
Afton Chemical Corporation  
500 Spring Street  
Richmond, VA 23219

Dear Mr. Treskov,

We have reviewed the fluid properties and the 35VQ25 pump test results, ATS-373 (ASTM D6973) on Gazpromnett Hydraulic HVLP ISOVG 32

Based on the information we received it is our opinion that Gazpromnett Hydraulic HVLP 32 meets the anti-wear requirements for the hydraulic recommendations for Eaton's Vickers products according to brochure 03-401-2010.

Since Gazpromnett Hydraulic HVLP contains polymeric VI improver, allowance should be made for both temporary and permanent shear loss of viscosity when setting maximum operating oil temperature in the system.

Eaton ATS-373 (ASTM D6973), 35VQ25 high pressure vane pump test specifies the test fluid to be ISO viscosity grade 32. You have the option to read across to higher viscosity grade, ISO VG 46 or ISO VG68, only when the exact same type and percentage of the additive technology is used as in the formulation of ISO VG 32 fluid.

Sincerely,



Thelma Marougy  
Lubricant Specialist  
Eaton Hydraulics Group



fives

Metal Cutting | Composites

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

August 24, 2015

Mr. Yaroslav Treskov  
Head of Technological Development and Quality Control Department  
Gazpromneft-Lubricants, LTD  
14/3, Krzhizhanovskogo Street,  
Moscow, 117218  
Russia

Dear Mr. Treskov:

This letter is to inform you of the approval of the following products which have met the requirements for the Fives Machining Systems machines and Fives Cincinnati P-XX specifications. They will appear in our Approved Lubricants listing as shown below:

**SUPPLIER NAME**  
Gazpromneft-Lubricants, LLC

<b><u>Product Names</u></b>	<b><u>Fives Cincinnati P-Spec.</u></b>	<b><u>LAB REF#</u></b>	<b><u>TRD</u></b>
Gazpromneft Hydraulic HVLP 32 ██	P-68	60615	6/25/2015
Gazpromneft Hydraulic HVLP 46 ██	P-70	60915	6/25/2015
Gazpromneft Hydraulic HVLP 68 ██	P-69	60715	6/25/2015

This approval is for a period of three years from the test report date (TRD).

The products tested meet Thermal Stability requirements and any chemical and physical tests that were conducted by Fives Cincinnati. The test datasheets are attached. **The lubricant supplier has evidence that the products generate passing results versus the full complement of requirements, if tested.**

We are granting the approvals for this product based on the sample submitted to us for evaluation. Should any changes or reformulations occur, we are to be notified of these changes and the reformulated product must be submitted for evaluation and re-approval.



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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,

**Ravi Bhargava**, Ph.d., P.E.  
Materials and Lubricants Laboratory Manager  
**Fives Cincinnati**  
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Hebron, KY 41048 – **United States**  
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Enclosure : Test datasheets  
CC. Brian Rhode