Product	Key Benefits	Key Applications	Fluid Technology	Viscosity Grade	Viscosity Index	Pour Point (Flash Point) ***	Performance Levels
Modern, anti-wear hydraulic fluids for multipurpose applications							
PETRONAS Hydraulic ESF	Energy / Fuel saving up to 10%/6%** Excellent anti-wear protection Over 5x longer oil life* Excellent and highly stable performance over wide temp. ran	Mobile and industrial applications	Semi-synthetic	46 to 68	174	-33°C	Bosch Rexroth RDE 90235; DIN 51524 Part II HLP and III HVLP (2006); Eaton 03-401-2010; Eaton Lubricant Specification E-FDGN- TB002-E; Fives Cincinnati P-68/P-69/P-70; ISO 11158 HV (FDIS 2008); Parker Denison HF-0/HF-1/HF-2.
PETRONAS Hydraulic PLUS	 Excellent anti-wear protection Over 5x longer oil life** Excellent performance 	Mobile and industrial applications	Mineral	32 to 68	105	-33°C	Bosch Rexroth RDE 90235; DIN 51524 Part II HLP (2006); Eaton 03-401 -2010; Eaton Lubricant Specification E-FDGN- TB002-E; Fives Cincinnati P-68/P-69/P-70; ISO 11158 HM (FDIS 2008); Parker Denison HF-0/HF-1/HF-2.
PETRONAS Hydraulic HV	 Excellent anti-wear protection Over 3x longer oil life* High and stable performance over wide temp. range 	Mobile and industrial applications	Mineral	32 to 150	143	-33°C	ASTM D 6158 HV; Bosch Rexroth RD90220; DIN 51524 Part II HLP and III HVLP (2006); Eaton 03-401-2010; Fives Cincinnati P-68/ P-69/P-70; GM LS-2 (2004); ISO 11158 HV (FDIS 2008); JCMAS HK P041 (2004); Parker Denison HF-0/HF-1/HF-2; SAE MS1004; SEB 181 222 (2007); US Steel 126, 127 and 136.
PETRONAS Hydraulic	 Excellent anti-wear protection Over 3x longer oil life* High performance 	Mobile and industrial applications	Mineral	10 to 150	102	-33°C	ASTM D 6158 HM; Bosch Rexroth RD90220; DIN 51524 Part II HLP (2006); Eaton 03-401-2010; Fives Cincinnati P-68/P-69/ P-70; GM LS-2 (2004); ISO 11158 HM (FDIS 2008); JCMAS HK P041 (2004); Parker Denison HF-0/HF-1/HF-2; SAE MS1004; SEB 181 222 (2007); US Steel 126, 127 and 136.
Zinc-free, anti-	-wear hydraulic fluids for multipu	rpose applications					
PETRONAS Hydraulic HVZF	Excellent anti-wear protection Up to 10x longer oil life* High and stable performance over wide temp. range	Mobile and industrial applications	Mineral, Ashless	32 to 68	146	-33°C	DIN 51524 Part II HLP and III HVLP (2006); Eaton Brochure 03-401-2010; Fives Cincinnati P-68/P-69/P-70; ISO 11158 HV (FDIS 2008); Parker Denison HF-0/HF-1/HF-2.
PETRONAS Hydraulic ZF		Mobile and industrial applications	Mineral, Ashless	32 to 68	102	-33°C	DIN 51524 Part II HLP (2006); Eaton Brochure 03-401-2010; Fives Cincinnati P-68/P-69/ P-70; ISO 11158 HM (FDIS 2008); Parker Denison HF-0/HF-1/HF-2.
Detergent enhanced hydraulic fluids for high water contamination control							
PETRONAS Hydraulic HLPD	 ♦ High water tolerance (up to 3%) ♦ Excellent anti-wear protection ♦ Up to 3x longer oil life* ♦ Excellent performance 	Mobile and industrial applications	Mineral	32 to 68	105	-33°C	Daimler Chrysler DBL 6721 (2000); DIN 51524 Part II HLPD (2006).
Fire resistant hydraulic fluids for fire hazard applications							
PETRONAS Hydraulic FR	► Excellent fire resistance High anti-wear protection High and stable performance over wide temp. range Environmentally friendly	Mobile and industrial applications	Synthetic, Organic esters	46 to 68	174	(300°C)	Factory Mutual Approval; HFD Fluid.
PETRONAS Hydraulic HFC	Excellent fire resistance Very good anti-wear protection Very good performance	Industrial applications	Water-glycol	46	n.a.	(n.a.)	Factory Mutual Approval; HFC Fluid.

*** Typical value for VG 46 n.a. - not applicable

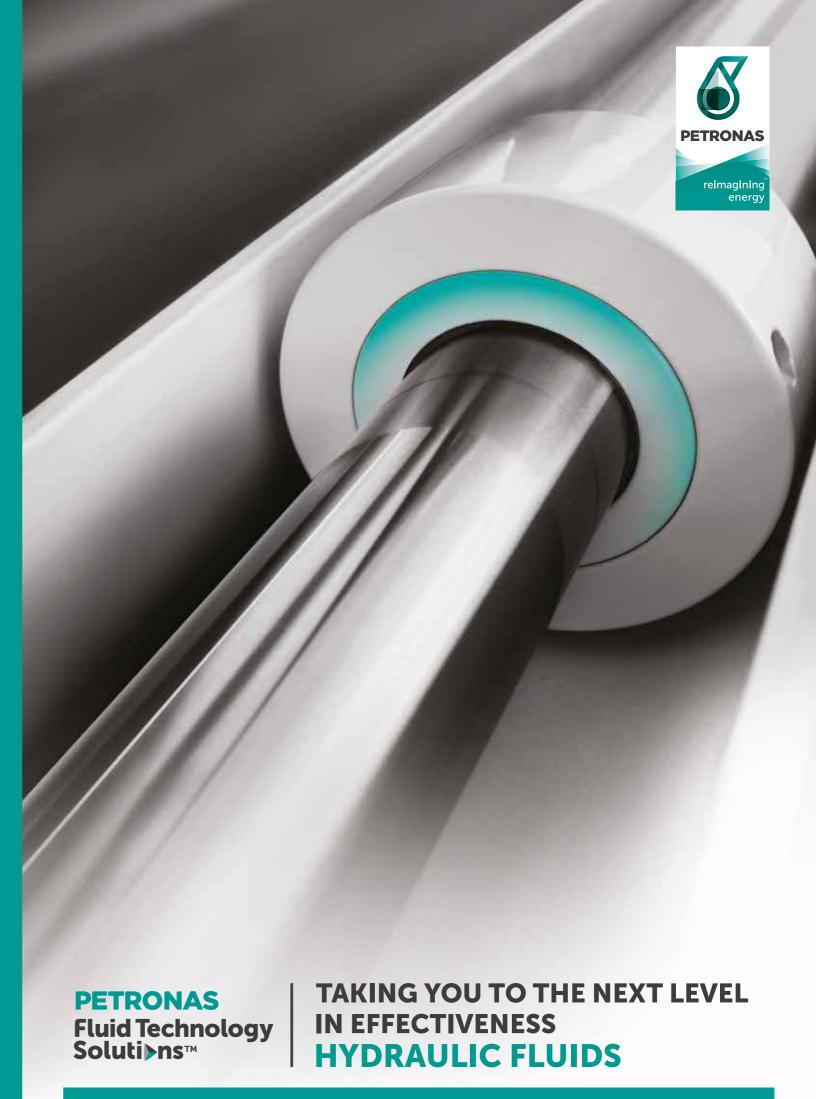


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Partner with us and take your business to the next level.





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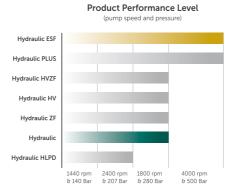
PETRONAS Lubricants International (PLI) is the global lubricant division of PETRONAS, one of the most successful petrochemical companies in the world.

Our mission is to deliver proven product technology and related services benefitting from our 100 years of experience. We believe in maximising your productivity with value-added products and services that are global, yet personal - our presence in 128 countries ensures our technical expertise reaches you wherever you are.

PLI's differentiator is product excellence, developed by world-class Technology Centres and brought to your market with local expertise. Our passion for performance improvement makes us an obvious choice for key OEMs and delivers success in Formula One Motorsport. Now, it has translated into a comprehensive industrial product range and tailor-made services for you.

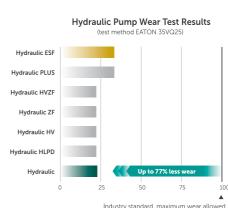


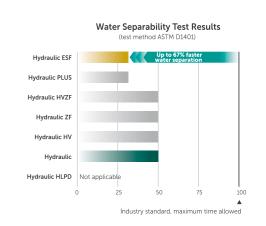
hydraulic system's effectiveness to the



Increasing performance and protection improving uptime and lowering maintenance

Oxidation Stability Test Results Hydraulic HVZF Hydraulic ESI Hydraulic PLUS Hydraulic ZI Hydraulic Hydraulic HI PD num oil life to pass the test (1x





YOUR CHALLENGES, OUR EXPERTISE

Today is the age of smaller, faster and stronger. OEMs are offering increasingly compact and advanced hydraulic equipment that perform at increased speeds, higher pressures and tighter component tolerances to significantly improve system efficiency. Additionally, the competitive market compels equipment owners to pursue more effective and longer-lasting solutions to maintain business profitability.

The improvements in equipment design and end-user expectations demand more robust and innovative hydraulic fluids. Reduced oil reservoir capacities along with greater operating pressures and temperatures generate higher oil stress, causing low-quality lubricants to fail

prematurely, thus compromising system performance. This potentially leads to increased maintenance costs and in extreme situations can have a dramatic impact on the continuity of a production

At PLI, we understand that maximising uptime is your key challenge. That's why we have developed Fluid Technology SolutionsTM, an intelligent approach to your fluid requirements that maximises your business performance through tailor-made product offerings and expert services. Our superior solutions meet the most severe industry and OEM specifications, giving you the performance you can rely on.



YOUR KEY TO MAXIMISING PERFORMANCE

Focusing our expertise, we've developed a comprehensive portfolio of hydraulic fluids that serves every mobile and industrial machinery application. Choose the right product for your application need and take the effectiveness of your hydraulic system to the next level.

Modern, anti-wear hydraulic fluids for multipurpose applications

Zinc-free, anti-wear hydraulic fluids for multipurpose applications

Detergent-enhanced hydraulic fluids for high water contamination control

Fire-resistant hydraulic fluids for fire hazard applications

PETRONAS Hydraulic ESF

- ♠ Energy / Fuel-saving up to 10%/6%**
 ♠ Excellent anti-wear protection
- ♦ Over 5x longer oil life*
- ♠ Excellent and highly stable performance over
- wide temperature range

 Mobile and industrial applications

PETRONAS Hydraulic PLUS

- ♦ Over 5x longer oil life*
- Excellent performance
 Mobile and industrial application

PETRONAS Hydraulic HV

♠ Excellent anti-wear pro

PETRONAS Hydraulic Over 3x longer oil life*

High and stable performance over wide temperature range Mobile and industrial applications

♦ Up to 10x longer oil life*

PETRONAS Hydraulic HVZF

PETRONAS Hydraulic ZF

- ♠ Excellent anti-wear pro♠ Up to 5x longer oil life*
- ♦ High and stable performance over wide ♦ High performance temperature range

 Mobile and industrial applications

Mobile and industrial applications

PETRONAS Hydraulic HLPD

- ♦ High water tolerance (up to 3%)
- ♦ Up to 3x longer oil life* Excellent performance

PETRONAS Hydraulic HFC

♠ Excellent fire resistance

- ♦ Very good anti-wear protection
- ♦ Very good performance

PETRONAS Hydraulic FR

High and stable performance over wide temperature range

♦ High anti-wear protection

♠ Environmentally friendly

♠ Industrial applications

First price hydraulic fluids

*vs. minimum requirements of ISO 11158 HM for anti-wear hydraulic fluids based on TOST (ASTM D943).

FTS SERVICE PROGRAM - TAILOR-MADE FOR YOU

At PETRONAS, we believe success is made by close partnerships. It is that very belief that drives us to work together with you in overcoming the challenges you face from demands of higher productivity to operating under intense, severe conditions.

That's why we present to you our **Fluid Technology Solutions™** Service Program - a tailor-made range of services designed to maximise your business performance. From specialised on-site analysis to emergency support for operational recovery, we are committed to assisting you in every possible situation.

Partner with us and take your business to the next level.

^{**} vs. conventional, standard viscosity hydraulic fluids. Actual results may vary depending on different application conditions, type & condition of equipment, current oil used