

PETRONAS
Fluid Technology
Solutions™



Intelligent approach to your fluid requirements that maximizes your business performance through tailor-made product offerings and expert services.

Fluids

Rely on us to design and deliver the highest quality products

Drawing on our deep and broad expertise in fuels, lubricants and functional fluids, we design, develop and deliver state-of-the-art product offerings. We work closely with you as your trusted partner to ensure we give you exactly the solution you need.

Technology

Choose technical and service excellence

We combine our successful track record in motor sports, our in-house R&D capabilities and our philosophy of continuous improvement to offer you first-class solutions and expertise – now and going forward.

Solutions

Maximizing your business success by partnering with us

We offer intellectual services, working hand-in-hand to ensure we develop the right products efficiently and provide solutions tailored to your own fluid requirements and business objectives.

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Industrial Lubricants
Pulp & Paper Industry



PETRONAS
Fluid Technology
Solutions™

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WOOD



SUSTAINABLE FOREST



DEBARKING MILL



DEBARKER

EM BEARINGS
PETRONAS GREASE LI SERIES

GEARBOXES
PETRONAS GEAR MEP SERIES

OPEN GEARS
PETRONAS GREASE LICA MG HL

HYDRAULICS
PETRONAS HYDRAULIC SERIES

CARRIAGE ROLLERS
PETRONAS GREASE LI EP SERIES

GREASE POINTS
PETRONAS GEASE LICA GEP SERIES



CHIPPER

EM BEARINGS
PETRONAS GREASE LI SERIES

GEARBOXES
PETRONAS GEAR MEP SERIES

GREASE POINTS
PETRONAS GEASE LICA GEP SERIES



DIGESTER

EM BEARINGS
PETRONAS GREASE LI SERIES

GEARBOXES
PETRONAS GEAR MEP SERIES



PULPING

EM BEARINGS
PETRONAS GREASE LI SERIES
PUMP BEARINGS
PETRONAS HYDRAULIC SERIES
GEARBOX
PETRONAS GEAR MEP SERIES
AGITATOR BEARINGS
SHAFT BEARINGS
PETRONAS GREASE LICA GEP SERIES



DE-INKING

EM BEARINGS
PETRONAS GREASE LI SERIES

SHAFT BEARINGS
PETRONAS GREASE LI EP SERIES

GEARS & BEARINGS
PETRONAS HYDRAULIC SERIES

PLATE ADJ. GEARBOX
PETRONAS GEAR MEP SERIES

EM BEARINGS
PETRONAS GREASE LI SERIES

SHAFT BEARINGS
PETRONAS GREASE LI EP SERIES
PETRONAS HYDRAULIC SERIES



FIBRE REFINERS



REPULPING

RECYCLED PAPER



PULPER



RECYCLED PAPER

PAPER MACHINE



HEADBOX

FOURDRINIER

EM BEARINGS
PETRONAS GREASE LI SERIES

SHAFT BEARINGS
PETRONAS GREASE LI EP SERIES

PRESS SECTION

ROLL BEARINGS
PETRONAS GREASE LI SERIES

DRYING SECTION

DRYING CYLINDER BEARINGS
PETRONAS CIRCULA PM SERIES
PETRONAS CIRCULA SYN SERIES

EM BEARINGS
PETRONAS GREASE LI SERIES

GEARBOX
PETRONAS GEAR MEP SERIES

SIZE PRESS

CALENDER

DRYING CYLINDER BEARINGS
PETRONAS CIRCULA PM SERIES
PETRONAS CIRCULA SYN SERIES

REEL SECTION

ROLL BEARINGS
PETRONAS GREASE LI SERIES

REWINDER

CIRCULATING OILS

	Description/application	Performance Level
PETRONAS CIRCULA SERIES	High quality R&O lubricants with the ability to rapidly separate from water, prevent rust, protect against the formation of emulsions and sludges.	DIN 51515 part 1 and 2, US Steel TSR, Agma, R&O oil; ISO 11158 HM.
PETRONAS CIRCULA SYN SERIES	Synthetic Polyalphaolefin based R&O oils that afford exceptional oxidation resistance and thermal properties. Advanced additive systems also impart the performance properties required for gearing operations under severe conditions.	DIN 51517 Part 3 CLP; AISE 224, David Brown S1.53.101(E); AGMA 9005-E02; strong FAG FE-8 performance.
PETRONAS CIRCULA PM SERIES	Modern, high quality, high performance oils specifically formulated to meet the latest OEMs requirements for demanding paper machine circulation systems.	Voith VN 108 Wet End – April 2012, Voith VN 108 Dry End – April 2012, Voith VN 108 Press Rolls – April 2012, SKF Dry End – 2006/11/10 (version 2), Metso RAU4L00659 Wet End 29/11/2012 (revision 7), Metso RAU4L00659 Dry End 29/11/2012 (revision 7).

GREASE

	Description/application
PETRONAS GREASE LI SERIES	Smooth-textured Lithium-based greases containing rust, oxidation, and corrosion inhibitors, providing exceptional wear protection, good water-wash resistance, low temperature dispensing properties and long life in bearings operating at elevated temperatures.
PETRONAS GREASE LI EP SERIES	Premium quality extreme pressure industrial greases fortified with additives to enhance rust resistance, oxidation stability and minimise wear.
PETRONAS GREASE LICA GEP	Smooth-textured polymer-based, dual thickened Lithium/Calcium greases combining the performance advantages of both thickeners and fortified with solid friction-reduction additives.
PETRONAS GREASE LICA MG HL	Smooth-textured Lithium/Calcium polymer thickened grease, fortified with synthetic components. It contains EP additives, film thickness enhancement polymers to improve boundary lubrication scenarios, oxidation, rust and corrosion inhibitors and is fortified with proprietary dual solid friction reduction additives.

HYDRAULIC FLUIDS

	Description/application	Performance Level
PETRONAS HYDRAULIC SERIES	Premium quality anti-wear hydraulic oils specially developed to provide multi-metal compatibility and improved wear protection in heavy-duty service hydraulic systems.	AFNOR NFE 48-690/1 (Dry & Wet); AFNOR NFE 48-603; ISO 11158 HM; GM LS-2; Eaton 03-401-2010 (supersedes Vickers I-286-S & M-2950-S); DIN 51524 Part II; Sauer Danfoss 520L0463; US Steel 126, 127 and 136; JCMAS HK; MAG IAS (Cincinnati Milacron) P-68/P-69/P-70; Parker Denison HF0/HF1/HF2 T6C-020; ASTM D 6158 HM.

GEAR OILS

	Description/application	Performance Level
PETRONAS GEAR MEP SERIES	High quality paraffinic mineral oils, incorporating unleaded additives to provide extreme pressure and anti-wear characteristics, rust and corrosion protection, enhanced oxidation stability and resistance to foaming.	DIN 51517 Part 3 CLP; AISE 224, David Brown S1.53.101(E); AGMA 9005-E02; strong FAG FE-8 performance.