





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.



PROVEN EXPERTS, ALWAYS READY TO HELP!

At the heart of our services, our experts strive to give you the peace-of-mind you're looking for.

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



For more information, please contact:

PETRONAS Fluid Technology Soluti⊳ns™ **TAKING YOU TO THE NEXT LEVEL IN OPERATIONAL PERFORMANCE PULP AND PAPER INDUSTRY**

PETRONAS Fluid Technology Soluti⊳ns™

YOUR PARTNER FOR PROGRESS

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.



YOUR CHALLENGES, OUR EXPERTISE

Today, the pulp and paper industry faces As the preferred strategic partner and numerous major challenges, such as provider of lubrication solutions to major increasing global competition, decreas- pulp and paper producers worldwide, we ing demand for certain paper types as a have gained a thorough understanding result of the spread of electronic com- of the lubrication requirements and munication, new environmental and challenges facing your business. health legislation, the rising cost of labour, raw materials, energy and the maintenance of ageing machinery.

To maintain competitiveness through improved productivity and reduced operating costs, the effective maintenance of all production equipment is crucial. As a result, in the multi-stage paper production process that employs large and varied equipment, working at full capacity in harsh conditions, high quality lubricants are essential.

With a holistic approach in mind, we have developed Fluid Technology **Solutions™**, an intelligent approach to your fluid requirements that maximises your business performance through tailor-made product offerings and expert services. It is designed to help your business reach new levels in productivity and profitability by enabling improved efficiency and quality.

With PETRONAS on board, you can be assured of a reliable partner for progress.

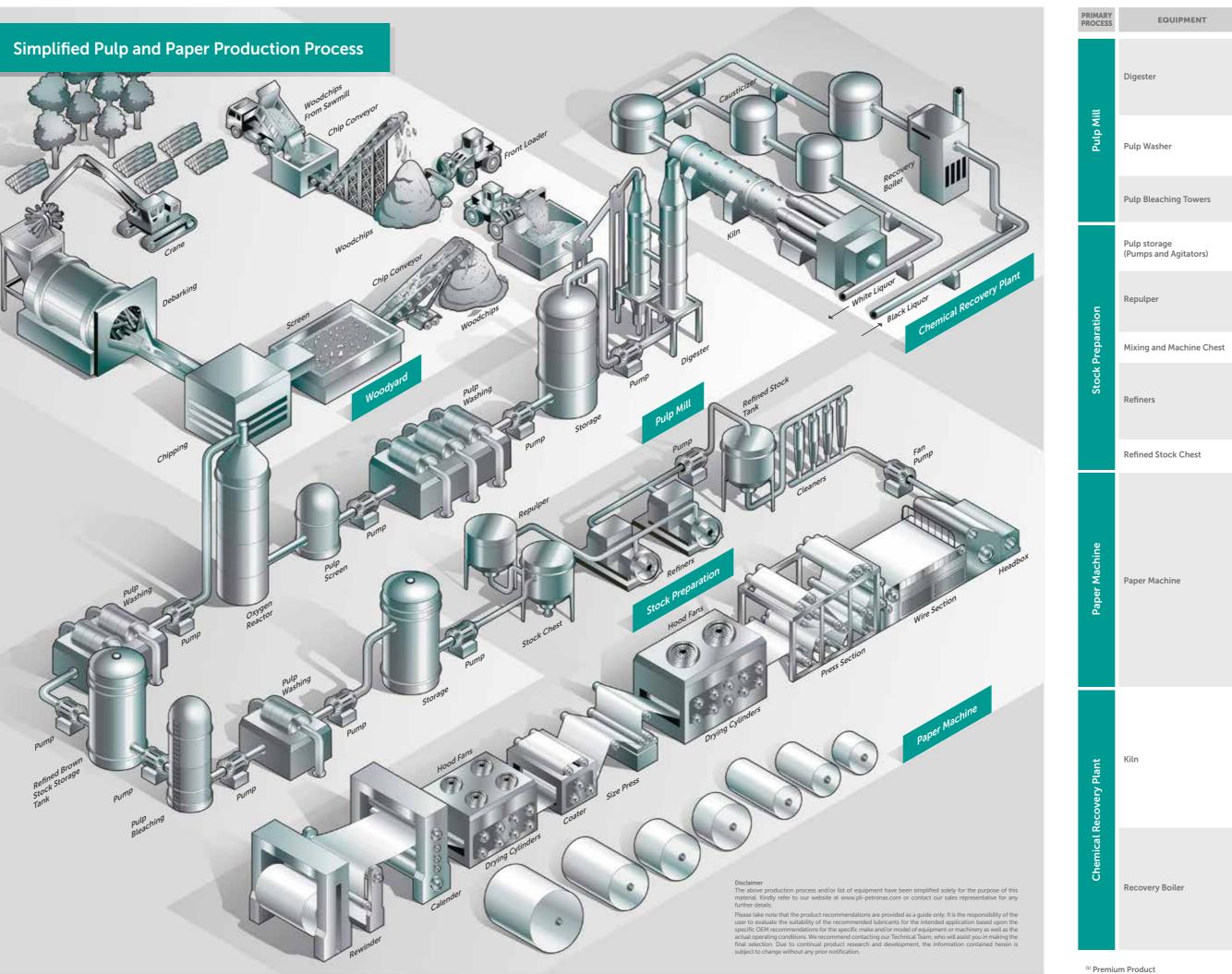


YOUR KEY TO MAXIMISING PERFORMANCE

By focusing our expertise and utilising the latest advances in lubrication technology, we have developed a comprehensive range of state-of-the-art lubricants that meets the needs of all paper production equipment. Choose the correct lubricant for equipment requirements and watch your productivity accelerate to the next level.



PRIMARY PROCESS	EQUIPMENT	LUBRICATION PARTS	LUBRICANT	STANDARD	PREMIUM	SUPREME
	Crane & Lifting Equipment	Bearings	Grease	PETRONAS Grease LiX EP 2/380	PETRONAS Grease CaSx	PETRONAS Grease LiX Syn 2/460
		Cables / Wire Ropes	Grease	PETRONAS Grease LiCa GEP 2.5		
		Cooling System	Coolant Fluid	PETRONAS Paraflu 11	PETRONAS Paraflu Up Ready	
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
		Engine	Engine Oil	PETRONAS Urania LD 7	PETRONAS Urania 5000E 15W40	PETRONAS Urania 7000E 10W40
		Gearbox / Reducer	Gear Oil	PETRONAS Gear MEP ⁽¹⁾	PETRONAS Gear FL	PETRONAS Gear Syn PAO
		Hydraulic System	Hydraulic Fluid	PETRONAS Hydraulic	PETRONAS Hydraulic HV	PETRONAS Hydraulic ESF
		Hydraulic System (Mobile)	Transmission Fluid	PETRONAS Powertrans T4		
		Open Gears	Grease		PETRONAS Grease LiCa TMG	
	Dump Trucks, Wheel Loaders, Front End Loaders	Cooling System	Coolant Fluid	PETRONAS Paraflu 11	PETRONAS Paraflu Up Ready	
		Converter	Transmission Fluid	PETRONAS Powertrans T4		
		Engine	Engine Oil	PETRONAS Urania LD 7	PETRONAS Urania 5000E 15W40	PETRONAS Urania 7000E 10W40
		Final Drive	Transmission Fluid	PETRONAS Powertrans T4		
		Grease Points	Grease	PETRONAS Grease LiX MEP	PETRONAS Grease LiCa MG HL	PETRONAS Grease LiCa MG XHL
		Hydraulics / Steering	Transmission Fluid	PETRONAS Powertrans T4		
		Transmission	Transmission Fluid	PETRONAS Powertrans T4		
	Debarking Drum	Bearings	Grease	PETRONAS Grease LiX EP 2/380		PETRONAS Grease LiX Syn 2/460
		Chain Drive	Slideway Oil	PETRONAS Slideway		
Ģ		Couplings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PE HS	
dyai		Couplings (Oil)	Turbine Oil	PETRONAS Jenteram	PETRONAS Jenteram G	PETRONAS Jenteram Syn
Woodyard		Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
		Gearbox / Reducer	Gear Oil	PETRONAS Gear MEP ⁽¹⁾	PETRONAS Gear FL	PETRONAS Gear Syn PAO
		Hydraulic System	Hydraulic Fluid	PETRONAS Hydraulic	PETRONAS Hydraulic HV	PETRONAS Hydraulic ESF
		Open Gears	Grease		PETRONAS Grease LiCa TMG	
	Wood Chipper	Bearings	Grease	PETRONAS Grease LiX EP 2/380		PETRONAS Grease LiX Syn 2/460
		Couplings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PE HS	
		Couplings (Oil)	Turbine Oil	PETRONAS Jenteram	PETRONAS Jenteram G	PETRONAS Jenteram Syn
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
		Grease Points	Grease	PETRONAS Grease Li EP 2		PETRONAS Grease LiX Syn 2/220
		Gearbox / Reducer	Gear Oil	PETRONAS Gear MEP (1)	PETRONAS Gear FL	PETRONAS Gear Syn PAO
		Hydraulic System	Hydraulic Fluid	PETRONAS Hydraulic	PETRONAS Hydraulic HV	PETRONAS Hydraulic ESF
	Chip Conveyors	Bearings	Grease	PETRONAS Grease LiX EP 2/380		PETRONAS Grease LiX Syn 2/460
		Couplings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PE HS	
		Conveyor Back Stop	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
		Gearbox / Reducer	Gear Oil	PETRONAS Gear MEP ⁽¹⁾	PETRONAS Gear FL	PETRONAS Gear Syn PAO
	Screens	Bearings	Grease	PETRONAS Grease LiX EP 2/380		PETRONAS Grease LiX Syn 2/460
		Chains / Sprockets	Slideway Oil	PETRONAS Slideway		
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
		Gearbox / Reducer	Gear Oil	PETRONAS Gear MEP ⁽¹⁾	PETRONAS Gear FL	PETRONAS Gear Syn PAO



LUBRICATION PARTS	LUBRICANT	STANDARD	PREMIUM	SUPREME
Bearings	Grease			PETRONAS Grease LiX Syn 1/500
Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
Gearbox / Reducer	Gear Oil	PETRONAS Gear MEP (1)	PETRONAS Gear FL	PETRONAS Gear Syn PAO
Grease Points	Grease	PETRONAS Grease Li EP 2		PETRONAS Grease LiX Syn 2/220
Hydraulic System	Hydraulic Fluid	PETRONAS Hydraulic	PETRONAS Hydraulic HV	PETRONAS Hydraulic ESF
Bearings (Oil)	Circulating Oil	PETRONAS Circula	PETRONAS Circula PM	PETRONAS Circula Syn
Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	· · · · · · · · · · · · · · · · · · ·
Gearbox / Reducer	Gear Oil	PETRONAS Gear MEP ⁽¹⁾	PETRONAS Gear FL	PETRONAS Gear Syn PAO
Repulper and General Bearings	Grease	PETRONAS Grease LiX EP 2/380		PETRONAS Grease LiX Syn 2/460
Bearings	Grease	PETRONAS Grease LiX EP 2/380		PETRONAS Grease LiX Syn 2/460
Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
Gearbox / Reducer	Gear Oil	PETRONAS Gear MEP (1)	PETRONAS Gear FL	PETRONAS Gear Syn PAO
Bearings	Grease	PETRONAS Grease LiX EP 2/380		PETRONAS Grease LiX Syn 2/460
5	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	PETRONAS Glease Lix Syll 2/400
Electric Motor Bearings Gearbox / Reducer	Gear Oil	PETRONAS Grease LI 2	PETRONAS Grease PO	DETRONAS Coor Sup DAO
	Grease	PETRONAS Grease Li 2	PETRONAS Grease PE HS	PETRONAS Gear Syn PAO
Couplings Bearings	Grease	PETRONAS Grease Li Z	PETRONAS Grease PE FIS	PETRONAS Grease LiX Syn 2/460
	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	PETRONAS Grease LIX Syn 2/400
Electric Motor Bearings Gearbox / Reducer		PETRONAS Grease LI 2	PETRONAS Grease PO	
	Gear Oil		PETRONAS Gear FL	PETRONAS Gear Syn PAO
Bearings	Grease	PETRONAS Grease LiX EP 2/380		PETRONAS Grease LiX Syn 2/460
Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	DETRONAS Current LiV Sur 2/460
Bearings	Grease	PETRONAS Grease LiX EP 2/380		PETRONAS Grease LiX Syn 2/460
Bearings (Oil)	Circulating Oil	PETRONAS Circula		PETRONAS Circula Syn
Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
Geared Coupling	Grease	PETRONAS Grease Li 2	PETRONAS Grease PE HS	
Gearbox / Reducer	Gear Oil	PETRONAS Gear MEP	PETRONAS Gear FL	PETRONAS Gear Syn PAG
Bearings	Grease	PETRONAS Grease LiX EP 2/380		PETRONAS Grease LiX Syn 2/460
Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
Calendar Roll Bearings (Oil)	Circulating Oil	PETRONAS Circula	PETRONAS Circula PM	PETRONAS Circula Syn
Dryer Bearings	Circulating Oil	PETRONAS Circula	PETRONAS Circula PM	PETRONAS Circula Syn
Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
Fans (Oil)	Circulating Oil	PETRONAS Circula	PETRONAS Circula PM	PETRONAS Circula Syn
Fans - Hood	Grease	PETRONAS Grease Li EP 2	PETRONAS Grease CaSx	PETRONAS Grease LiX Syn 2/220
Fans - Trim	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
Hydraulic System	Hydraulic Fluid	PETRONAS Hydraulic	PETRONAS Hydraulic HV	PETRONAS Hydraulic ESF
Press Roll Bearings	Grease	PETRONAS Grease LiX EP 2/380		PETRONAS Grease LiX Syn 2/460
Rewind Stand Bearings (Pope Reel)	Grease	PETRONAS Grease LiX EP 2/380		PETRONAS Grease LiX Syn 2/460
Roll Drive Gearbox	Gear Oil	PETRONAS Gear MEP ⁽¹⁾	PETRONAS Gear FL	PETRONAS Gear Syn PAO
Rope Pulley Bearing	Grease	PETRONAS Grease Li EP 2	PETRONAS Grease CaSx	PETRONAS Grease LiX Syn 2/220
Steam Rotary Joints	Grease	PETRONAS Grease LiX MEP		
Vacuum Pumps	Grease	PETRONAS Grease Li EP 2	PETRONAS Grease CaSx	PETRONAS Grease LiX Syn 2/220
Wire Roll Bearings	Grease	PETRONAS Grease LiX EP 2/380		PETRONAS Grease LiX Syn 2/460
Auxilary Diesel Engine	Engine Oil	PETRONAS Urania LD 7	PETRONAS Urania 5000E 15W40	PETRONAS Urania 7000E 10W40
Auxilary Reducer	Gear Oil	PETRONAS Gear MEP ⁽¹⁾	PETRONAS Gear FL	PETRONAS Gear Syn PAO
Couplings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PE HS	
Cooling System	Coolant Fluid	PETRONAS Paraflu 11	PETRONAS Paraflu Up Ready	
Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
Gearbox / Reducer	Gear Oil	PETRONAS Gear MEP	PETRONAS Gear FL	PETRONAS Gear Syn PAO
Girth Gear	Grease		PETRONAS LiCa TMG	
Kiln Support Roller Bearings	Circulating Oil			PETRONAS Circula Syn
Thrust Bearings	Circulating Oil			PETRONAS Circula Syn
Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
Forced and Induced Draft Fan Bearings	Grease		PETRONAS Grease CaSx	PETRONAS Grease LiX Syn 2/220
Forced and Induced Draft Fan Bearings (Oil)	Circulating Oil	PETRONAS Circula	PETRONAS Circula PM	PETRONAS Circula Syn
Precipitator Gearbox / Reducer	Gear Oil	PETRONAS Gear MEP ⁽¹⁾	PETROANS Gear FL	PETRONAS Gear Syn PAO
Precipitator Support Bearings	Grease		PETRONAS Grease CaSx	PETRONAS Grease LiX Syn 2/220
Primary Air Fan Bearings	Grease		PETRONAS Grease CaSx	PETRONAS Grease LiX Syn 2/220
Secondary Air Fan Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	PETRONAS Grease LiX Syn 2/100
Soot Blower Gearbox / Reducer	Gear Oil			PETRONAS Gear Syn PAG