





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™

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

With increasing pressure to improve gained a thorough understanding of the productivity, cut costs and reduce the lubrication requirements and challenges impact on the environment, the modern facing your business. steel industry faces huge challenges which is why the quality of the lubricants you use is critical. In a round-the-clock process that subjects machinery to intense heat and pressure, high quality lubricants can prevent unexpected and costly breakdowns, extend maintenance intervals and operating life of the equipment, to the to help your business reach new levels in benefit of your business.

As the preferred strategic partner and

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 productivity and profitability by enabling improved efficiency and quality.

provider of lubrication solutions to major With PETRONAS on board, you can be steel producers worldwide, we have assured of a reliable partner for progress.

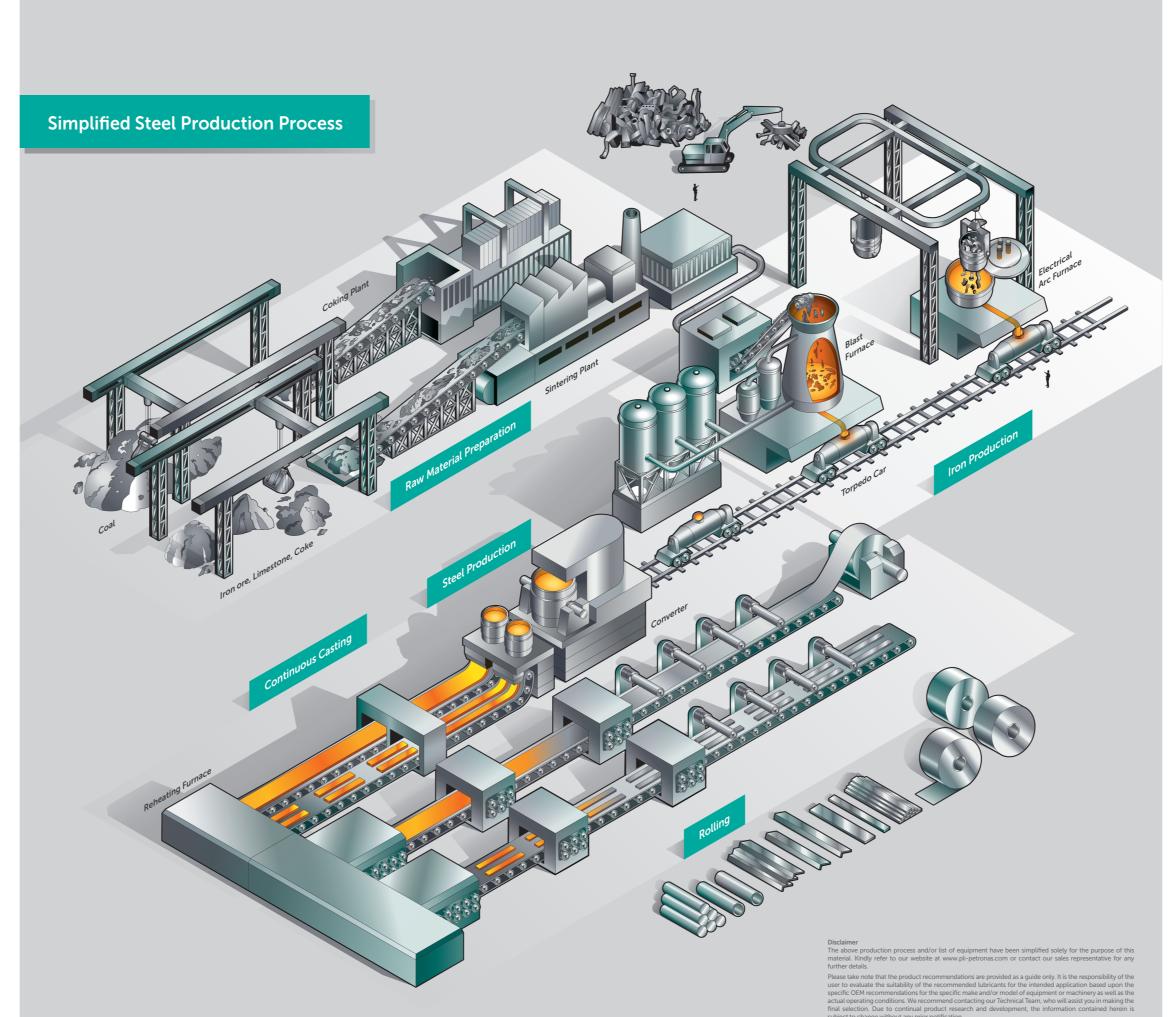


YOUR KEY TO MAXIMISING PERFORMANCE

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 steel production equipment. Choose the correct lubricant for equipment requirements and watch your productivity accelerate to the next level.



COCESS	EQUIPMENT	LUBRICATION PARTS	LUBRICANT	STANDARD	PREMIUM	SUPREME
	Breaker Screen	Bearings	Grease	PETRONAS Grease LiX EP 2/380	PETRONAS Grease CaSx	PETRONAS Grease LiX Syn 2/220
		Hydraulic System	Hydraulic Fluid	PETRONAS Hydraulic	PETRONAS Hydraulic HV	PETRONAS Hydraulic ESF
	Conveyors	Bearings	Grease	PETRONAS Grease Li EP 2	PETRONAS Grease CaSx	PETRONAS Grease LiX Syn 2/220
		Coupling	Grease	PETRONAS Grease Li 2	PETRONAS Grease PE HS	
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
		Gearbox / Reducer	Gear Oil	PETRONAS Gear MEP (2)	PETRONAS Gear FL	PETRONAS Gear Syn PAO
	Coke Oven	Butterfly / Actuator Valve	Grease	PETRONAS Grease LiCa GEP 2.5	PETRONAS Grease LiX MEP	PETRONAS Grease LiCa MG XHL
		Compressors	Compressor Oil	PETRONAS Compressor A M2	PETRONAS Compressor A M4	PETRONAS Compressor A Syn PAO
		Contact Bearings	Grease	PETRONAS Grease LiX EP 2/380	PETRONAS Grease CaSX	PETRONAS Grease LiX Syn 2/220
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
		Gearbox / Reducer	Gear Oil	PETRONAS Gear MEP (2)	PETRONAS Gear FL	PETRONAS Gear Syn PAG*
		Grease Points (Charge & Pusher Car)	Grease	PETRONAS Grease LiX EP 2/380	PETRONAS Grease CaSX	PETRONAS Grease LiX Syn 2/460
		Hydraulic System	Hydraulic Fluid	PETRONAS Hydraulic HFC	PETRONAS Hydraulic FR	
	Cone / Gyratory / Impact / Jaw / Crushers	Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
		Gearbox / Reducer	Gear Oil	PETRONAS Gear MEP (2)	PETRONAS Gear FL	PETRONAS Gear Syn PAO
		Hydraulic System	Hydraulic Fluid	PETRONAS Hydraulic	PETRONAS Hydraulic HV	PETRONAS Hydraulic ESF
		Plain Bearings (Oil)	Gear Oil	PETRONAS Gear MEP (2)	PETRONAS Gear FL	PETRONAS Gear Syn PAO
		Plain Bearings / Roller Bearings (1)	Grease	PETRONAS Grease LiX EP 2/380		PETRONAS Grease LiX Syn 2/460
		Spider Bush Bearing	Grease	PETRONAS Grease LiX MEP	PETRONAS Grease LiCa MG HL	PETRONAS Grease LiCa MG XHL
		Spider Bush Bearing (Oil)	Gear Oil	PETRONAS Gear MEP (2)	PETRONAS Gear FL	PETRONAS Gear Syn PAO
	Larry / Charge Car	Contact Bearings	Grease	PETRONAS Grease LiX EP 2/380	PETRONAS Grease CaSX	PETRONAS Grease LiX Syn 2/220
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
	Mixer	Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
		Gearbox / Reducer	Gear Oil	PETRONAS Gear MEP (2)	PETRONAS Gear FL	PETRONAS Gear Syn PAO
	Quench Car	Cooling System	Coolant Fluid	PETRONAS Paraflu 11	PETRONAS Paraflu Up Ready	
		Diesel Engine (Two Stroke)	Engine Oil	PETRONAS Genrail V	PETRONAS Genrail Syn VI	
		Gearbox / Reducer	Gear Oil	PETRONAS Gear MEP (2)	PETRONAS Gear FL	PETRONAS Gear Syn PAO/PAG*
		Hydraulic System	Hydraulic Fluid	PETRONAS Hydraulic HFC	PETRONAS Hydraulic FR	
		Journal Bearings	Grease	PETRONAS Grease LiX EP 2/380	PETRONAS Grease CaSX	PETRONAS Grease LiX Syn 2/460
		Journal Bearings (Oil)	Circulating Oil	PETRONAS Circula		PETRONAS Circula Syn
	Quenching Tower	Bearings	Grease	PETRONAS Grease Li EP 2	PETRONAS Grease LiX 2/170	PETRONAS Grease LiX Syn 2/220
		Bearings (Oil)	Hydraulic Fluid	PETRONAS Hydraulic	PETRONAS Hydraulic HV	PETRONAS Hydraulic ESF
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
	Screening Plant	Bearings	Grease	PETRONAS Grease LiX EP 2/380	PETRONAS Grease CaSx	PETRONAS Grease LiX Syn 2/220
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	



PRIMARY PROCESS	KEY EQUIPMENT	LUBRICATION PARTS	LUBRICANT	STANDARD	PREMIUM	SUPREME			
Raw Materials Preparation	Stacker / Reclaimer	Bearings	Grease	PETRONAS Grease Li EP 2	PETRONAS Grease CaSx	PETRONAS Grease LiX Syn 2/220			
		Cables	Grease	PETRONAS Grease LiCa GEP 2.5					
		Chains	Slideway Oil	PETRONAS Slideway					
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU				
		Gearbox / Reducer	Gear Oil	PETRONAS Gear MEP (2)	PETRONAS Gear FL	PETRONAS Gear Syn PAO			
		Open Gears	Grease		PETRONAS Grease LiCa TMG				
	Sintering Plant	Contact Bearings	Grease	PETRONAS Grease LiX EP 2/380	PETRONAS Grease CaSX	PETRONAS Grease LiX Syn 2/460			
		Crusher and Vibrating Screens	Grease	PETRONAS Grease LiX EP 2/380	PETRONAS Grease CaSX	PETRONAS Grease LiX Syn 2/460			
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU				
		Gearbox / Reducer	Gear Oil	PETRONAS Gear MEP (2)	PETRONAS Gear FL	PETRONAS Gear Syn PAG*			
		Grease Points	Grease	PETRONAS Grease LiX EP 2/380	PETRONAS Grease CaSX	PETRONAS Grease LiX Syn 2/460			
		Sintering Strand Grease	Grease	PETRONAS Grease LiX EP 2/380	PETRONAS Grease CaSX	PETRONAS Grease LiX Syn 2/460			
	Blast Furnace	Actuator Valves	Grease	PETRONAS Grease LiCa GEP 2.5	PETRONAS Grease LiX MEP	PETRONAS Grease LiCa MG XHL			
		Blower (Compressor)	Compressor Oil	PETRONAS Compressor A M2	PETRONAS Compressor A M4	PETRONAS Compressor A Syn PAO			
⊑		Blower (Fan)	Grease	PETRONAS Grease PU	PETRONAS Grease CaSX	PETRONAS Grease LiX Syn 2/220 and 2/100			
ctic		Compressors (Tuyeres)	Compressor Oil	PETRONAS Compressor A M2	PETRONAS Compressor A M4	PETRONAS Compressor A Syn PAO			
Iron Production		Contact Bearings	Grease	PETRONAS Grease LiX EP 2/380	PETRONAS Grease CaSX	PETRONAS Grease LiX Syn 2/460			
P.		Hydraulic System	Hydraulic Fluid	PETRONAS Hydraulic HFC	PETRONAS Hydraulic FR				
<u>5</u>		Tap Hole Drill	Hydraulic Fluid	PETRONAS Hydraulic HFC	PETRONAS Hydraulic FR				
		Turbine (Tuyeres)	Turbine Oil	PETRONAS Jenteram	PETRONAS Jenteram G	PETRONAS Jenteram Syn			
		Mud Gun	Hydraulic Fluid	PETRONAS Hydraulic HFC	PETRONAS Hydraulic FR				
	Electric Arc Furnace	Compressor (Air Brake)	Compressor Oil	PETRONAS Compressor A M2	PETRONAS Compressor A M4	PETRONAS Compressor A Syn PAO			
		Hydraulic System	Hydraulic Fluid	PETRONAS Hydraulic HFC	PETRONAS Hydraulic FR	, ,			
		Open Gears and Plates	Grease		PETRONAS Gear LiCa TMG				
		Support Bearings	Grease	PETRONAS Grease LiX EP 2/380	PETRONAS Grease CaSX	PETRONAS Grease LiX Syn 2/460			
	Torpedo Car	Contact Bearings	Grease	PETRONAS Grease LiX EP 2/380	PETRONAS Grease CaSX	PETRONAS Grease LiX Syn 2/460			
		Cooling System	Coolant Fluid	PETRONAS Paraflu 11	PETRONAS Paraflu Up Ready				
uction		Diesel Engine (Two Stroke)	Engine Oil	PETRONAS Genrail V		PETRONAS Genrail Syn VI			
		Gearbox / Reducer	Gear Oil	PETRONAS Gear MEP (2)	PETRONAS Gear FL	PETRONAS Gear Syn PAG*			
$\overline{\mathbf{o}}$		Grease Points (Rails)	Grease	PETRONAS Grease LiX EP 2/380	PETRONAS Grease CaSX	PETRONAS Grease LiX Syn 2/460			
Pro		Journal Bearings (Oil)	Circulating Oil	PETRONAS Circula		PETRONAS Circula Syn			
Steel Pro		Rail Bearing Support	Grease	PETRONAS Grease LiX EP 2/380	PETRONAS Grease CaSX	PETRONAS Grease LiX Syn 2/460			
·'n		Contact Bearings	Grease		PETRONAS Grease CaSX				
	Converter / BOF	Gearbox / Reducer	Gear Oil	PETRONAS Gear MEP (2)	PETRONAS Gear FL	PETRONAS Gear Syn PAG*			
		Movable Seal							
	Ladle	Compressor (Air Brake)	Compressor Oil	PETRONAS Compressor A M2	PETRONAS Compressor A M4	PETRONAS Compressor A Syn PAO			
		Hydraulic System	Hydraulic Fluid	PETRONAS Hydraulic HFC	PETRONAS Hydraulic FR				
		Open Gears and Plates	Grease		PETRONAS Grease LiCa TMG				
		Support Bearings	Grease	PETRONAS Grease LiX EP 2/380	PETRONAS Grease CaSX	PETRONAS Grease LiX Syn 2/460			
ST	Continuous Casting Machine	Gearbox / Reducer	Gear Oil	PETRONAS Gear MEP (2)	PETRONAS Gear FL	PETRONAS Gear Syn PAO/PAG*			
Continuous Casting		Hydraulic System	Hydraulic Fluid	PETRONAS Hydraulic HFC	PETRONAS Hydraulic FR				
Cast		Slewing Bearings	Grease			PETRONAS LiX Semi Syn SR			
ပိ		Special Contact Bearing	Grease			PETRONAS Grease LiX Syn 2/460			
Rolling	Rolling Machine	Bearings (Furnace, Roller Table, Finishing Roller)	Grease	PETRONAS Grease LiX EP 2/380	PETRONAS Grease CaSX	PETRONAS Grease LiX Syn 2/220			
		Cooling Bed Support Bearings	Grease		PETRONAS Grease CaSX				
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU				
		Gearbox / Reducer (Rollers, Roller Tables, Finishing Rollers, Winders)	Gear Oil	PETRONAS Gear MEP (2)	PETRONAS Gear FL	PETRONAS Gear Syn PAO/PAG*			
		Hydraulic System (Rolling Gearbox / Reducer, Roller Table)	Hydraulic Fluid	PETRONAS Hydraulic HFC	PETRONAS Hydraulic FR				
		Morgan Bearing	Circulating Oil	PETRONAS Circula Mill	PETRONAS Circula Mill NT				
		Open Gears (Grease) - Winder	Grease		PETRONAS Grease LiCa TMG				
(1) Jaw Crusher Only (2) Premium Product * Special Precaution Needed									