





#### 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.

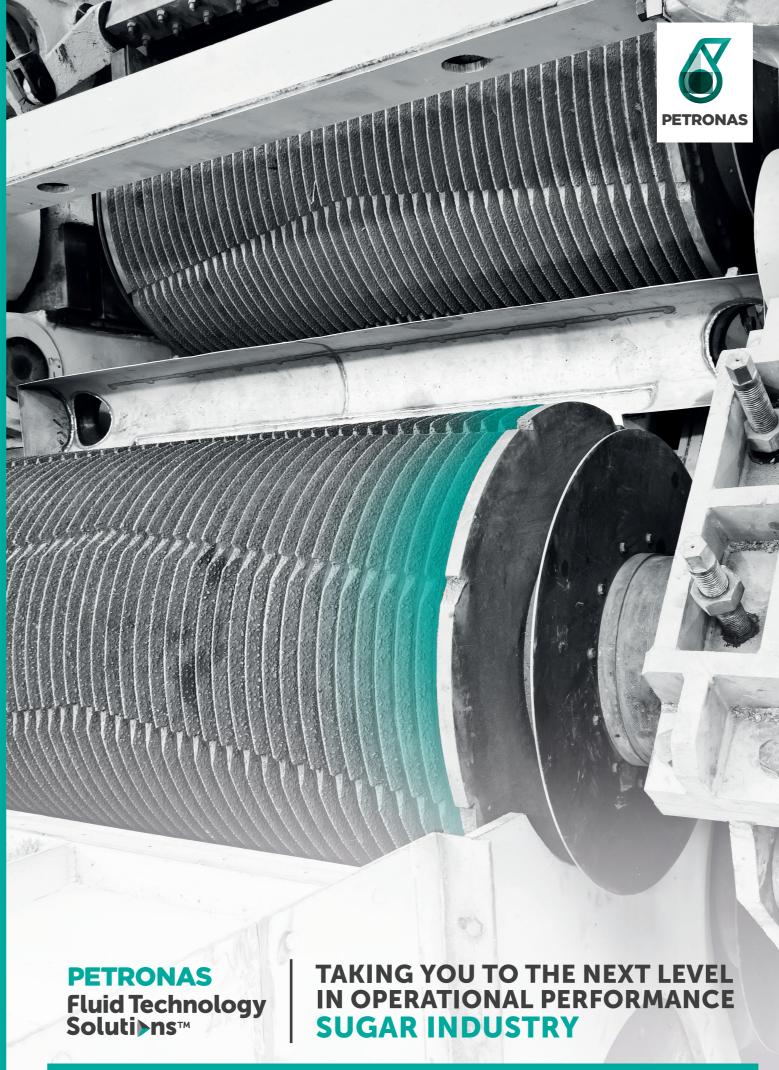
Partner with us and take your business to the next level.



### 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.



# **PETRONAS** Fluid Technology

#### 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.

> Together, let's take your operational performance to the next level.

### YOUR CHALLENGES, OUR EXPERTISE

Today, the global sugar industry faces sugar producers worldwide, we have numerous challenges, such as volatility of gained a thorough understanding of the commodity prices, increasing production lubrication requirements and challenges costs and growing competition due to the facing your business. easing of trading agreements. Therefore, efficient and reliable production is essential

to maintaining profitability. Machinery for sugar production presents a difficult operating environment for lubricants, exposing them to moisture, high temperature offerings and expert services. It is designed and pressure, dust and organic matter, which to help your business reach new levels in is why modern, high quality lubricants are productivity and profitability by enabling vital to help prevent unexpected breakdowns improved efficiency and quality. and lost production.

As the preferred strategic partner and provider of lubrication solutions to major

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

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

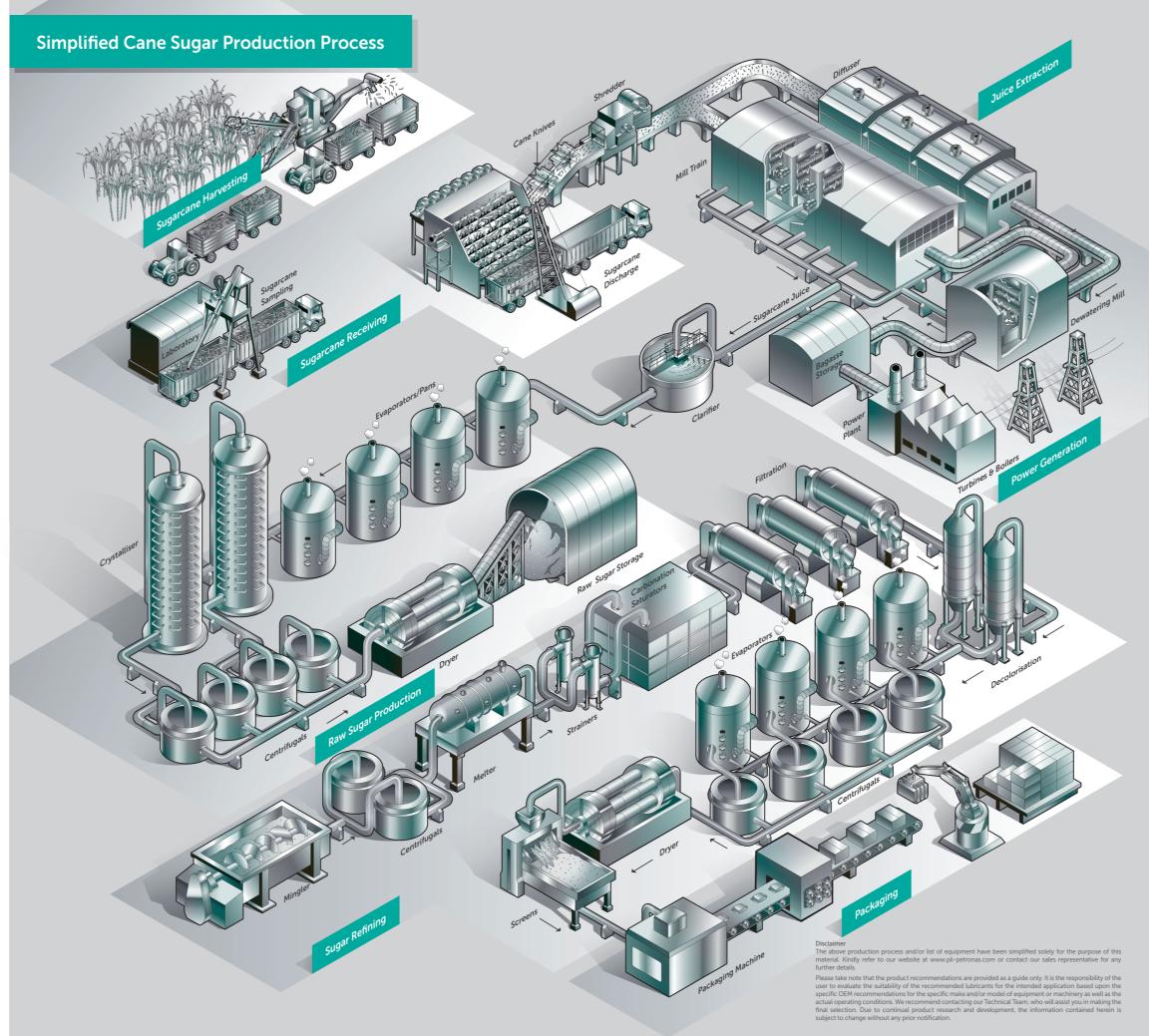


## YOUR KEY TO MAXIMISING PERFORMANCE

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 sugar 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
Sugarcane Harvesting	Harvester	Cooling System	Coolant Fluid	PETRONAS Paraflu 11	PETRONAS Paraflu Up Ready	
		Engine	Engine Oil	PETRONAS Urania LD 7	PETRONAS Urania 5000E	PETRONAS Urania 7000E
		Gearbox / Reducer	Gear Oil	PETRONAS Gear MEP (1)	PETRONAS Gear FL	PETRONAS Gear Syn PAO
		Grease Fittings	Grease	PETRONAS Grease LiX MEP	PETRONAS Grease LiCa MG HL	PETRONAS Grease LiCa MG XHL
		Hydraulic System	Hydraulic Fluid	PETRONAS Hydraulic	PETRONAS Hydraulic HV	PETRONAS Hydraulic ESF
		Transmission and Axel	Transmission Fluid	ARBOR MTF 10W30		
	Tractor	Cooling System	Coolant Fluid	PETRONAS Paraflu 11	PETRONAS Paraflu Up Ready	
		Engine	Engine Oil	PETRONAS Urania LD 7	PETRONAS Urania 5000E	PETRONAS Urania 7000E
		Gearbox / Reducer and Bearings	Transmission Fluid	ARBOR MTF 10W30		
		Grease Fittings	Grease	PETRONAS Grease Li EP 2	PETRONAS Grease LiX 2/170	PETRONAS Grease LiX Syn 2/200
		Hydraulic System	Hydraulic Fluid	PETRONAS Hydraulic	PETRONAS Hydraulic HV	PETRONAS Hydraulic ESF
		Transmission and Axel	Transmission Fluid	ARBOR MTF 10W30		
	Trucks	Converter	Transmission Fluid	PETRONAS Powertrans T4 30W		
		Cooling System	Coolant Fluid	PETRONAS Paraflu 11	PETRONAS Paraflu Up Ready	
		Engine	Engine Oil	PETRONAS Urania LD 7	PETRONAS Urania 5000E	PETRONAS Urania 7000E
		Final Drive	Transmission Fluid	PETRONAS Powertrans T4 50W		
		Grease Points	Grease	PETRONAS Tutela WB	PETRONAS Grease LiX 2/170	PETRONAS Grease LiX Syn 2/220
		Hydraulic System / Steering	Transmission Fluid	PETRONAS Powertrans T4 10W		
		Transmission	Transmission Fluid	PETRONAS Powertrans T4 30W		
		5th Wheel	Grease	PETRONAS Grease LiCa GEP 2.5		
	Sugarcane Sampling Unit	Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
ing		Hydraulic System	Hydraulic Fluid	PETRONAS Hydraulic	PETRONAS Hydraulic HV	PETRONAS Hydraulic ESF
Receiving	Discharging Unit	Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	,
Sec		Planetary Reduction Gear	Gear Oil	PETRONAS Gear MEP (1)	PETRONAS Gear FL	PETRONAS Gear Syn PAO
		Steel Cable	Grease	PETRONAS Grease LiCa GEP 2.5		-
Sugarcane	Feed Table	Axel Bearing	Grease	PETRONAS Grease LiX MEP	PETRONAS Grease LiCa MG HL	PETRONAS Grease Lica MG XHL
gal		Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
Su		Planetary Reduction Gear	Gear Oil	PETRONAS Gear MEP (1)	PETRONAS Gear FL	PETRONAS Gear Syn PAO
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
	Cane Knives	Gearbox / Reducer	Turbine Oil	PETRONAS Jenteram	PETRONAS Jenteram G	PETRONAS Jenteram Syn
		Shaft Support Bearings	Grease	PETRONAS Grease Li EP 2	PETRONAS Grease LiX EP 2/380	PETRONAS Grease CaSx
		Turbine Bearings	Turbine Oil	PETRONAS Jenteram	PETRONAS Jenteram G	PETRONAS Jenteram Syn
ction	Shredder	Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	. I monde outline, in
act		Gearbox / Reducer	Turbine Oil	PETRONAS Jenteram	PETRONAS Jenteram G	PETRONAS Jenteram Syn
Juice Extr		Turbine and Support Bearings	Turbine Oil	PETRONAS Jenteram	PETRONAS Jenteram G	PETRONAS Jenteram Syn
	Mill / Dewatering Mill	Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
		Gearbox / Reducer	Gear Oil	PETRONAS Gear MEP <sup>(1)</sup>	PETRONAS Gear FL	PETRONAS Gear Syn PAO
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
	Diffuser	Main Drive Gearbox / Bottle Screw Reducers	Gear Oil	PETRONAS Gear MEP (1)	PETRONAS Gear FL	PETRONAS Gear Syn PAO
			Cross	DETRONAS Croppe L:V 2/700	DETRONAS Croppe LiCo MC III	DETDOMAS Cross-1:C- MC VIII
		Support Bearings	Grease	PETRONAS Grease LiX 2/380	PETRONAS Grease LiCa MG HL	PETRONAS Grease LiCa MG XHL



IMARY OCESS	EQUIPMENT	LUBRICATION PARTS	LUBRICANT	STANDARD	PREMIUM	SUPREME
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
	Clarifier	Gearbox / Reducer	Gear Oil	PETRONAS Gear MEP (1)	PETRONAS Gear FL	PETRONAS Gear Syn PAO
	Ctarrier	Grease Points	Grease	PETRONAS Grease LiX EP 2/380	FEIRONAS Geal IE	PETRONAS Grease LiX Syn 2/220
Raw Sugar Production		Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	FEIRONAS diease LIX Syll 2/220
		Gearbox / Reducer	Gear Oil	PETRONAS Gear MEP (1)	PETRONAS Gear FL	PETRONAS Gear Syn PAO
	Evaporators / Pans	Grease Points	Grease	PETRONAS Grease LiX EP 2/380	PETRONAS GENTE	PETRONAS Grease LiX Syn 2/220
	Evaporators / Paris	Pump Bearings	Grease	PETRONAS Grease LIX EP 2/380		PETRONAS Grease LiX Syn 2/220
		Pump Bearings (Oil)	Circulating Oil	PETRONAS Circula		
		Axial Bearing	Grease	PETRONAS Circula PETRONAS Grease LiX EP 2/380		PETRONAS Circula Syn PETRONAS Grease LiX Syn 2/220
	Crystaliser	Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	PETRONAS Grease LIX Syll 2/220
		Gearbox / Reducer	Gear Oil	PETRONAS Grease LI 2  PETRONAS Gear MEP (1)	PETRONAS Grease PO PETRONAS Gear FL	DETRONAS Coor Sum DAO
					PETRONAS GEAT FL	PETRONAS Gear Syn PAO
	Centrifugals	Bearings	Grease	PETRONAS Grease Li EP 2	DETROMAS Crease DII	PETRONAS Grease LiX Syn 2/100
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
	Dryer	Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
		Fans Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	DETROMAS C. S. DAG
		Gearbox / Reducer	Gear Oil	PETRONAS Gear MEP (1)	PETRONAS Gear FL	PETRONAS Gear Syn PAO
		Support Bearings	Grease	PETRONAS Grease LiX EP 2/380	PETRONAS Grease CaSx	PETRONAS Grease LiX Syn 2/220
	Mingler	Bearings	Grease	PETRONAS Grease LiX EP 2/380		PETRONAS Grease LiX Syn 2/220
		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
	Centrifugals	Bearings	Grease	PETRONAS Grease Li EP 2		PETRONAS Grease LiX Syn 2/100
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
		Hydraulic System	Hydraulic Fluid	PETRONAS Hydraulic	PETRONAS Hydraulic HV	PETRONAS Hydraulic ESF
	Melter	Bearings	Grease	PETRONAS Grease LiX EP 2/380		PETRONAS Grease LiX Syn 2/220
		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
	Strainers / Rotary Auto Filter / Filter Press	Bearings	Grease	PETRONAS Grease LiX EP 2/380		PETRONAS Grease LiX Syn 2/220
		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 2/220
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
	Carbonation Saturators	Grease Points	Grease	PETRONAS Grease LiX EP 2/380	TETRONAS GICUSCI O	PETRONAS Grease LiX Syn 2/220
	Carbonation Saturators	Gearbox / Reducer	Gear Oil	PETRONAS Grease LIX EF 2/300	PETRONAS Gear FL	PETRONAS Gear Syn PAO
fining		Pump (Oil)	Circulating Oil	PETRONAS Circula	FEIRONAS Geal IE	PETRONAS Circula Syn
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	PETRONAS CIrcula Syll
	Decolorisation	Grease Points	Grease	PETRONAS Grease LiX EP 2/380	PETRONAS Grease PO	PETRONAS Grease LiX Syn 2/220
				PETRONAS Circula		
		Pump Bearings (Oil)	Circulating Oil			PETRONAS Circula Syn
		Bearings	Grease	PETRONAS Grease LiX EP 2/380	DETROMAS C. A.M.A.	PETRONAS Grease LiX Syn 2/220
		Compressor	Compressor Oil	PETRONAS Compressor A M2	PETRONAS Compressor A M4	PETRONAS Compressor A Syn PAC
	Evaporators / Pans	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 LiX EP 2/380		PETRONAS Grease LiX Syn 2/220
		Pump Bearings (Oil)	Circulating Oil	PETRONAS Circula		PETRONAS Circula Syn
		Bearings	Grease	PETRONAS Grease LiX EP 2/380		PETRONAS Grease LiX Syn 2/220
	Granulators / Dryers	Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
		Fans Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
		Gearbox / Reducer	Gear Oil	PETRONAS Gear MEP (1)	PETRONAS Gear FL	PETRONAS Gear Syn PAO
	Sugar Screens	Bearings	Grease	PETRONAS Grease LiX EP 2/380		PETRONAS Grease LiX Syn 2/220
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
	Packaging	Gearbox / Reducer	Gear Oil	PETRONAS Gear MEP (1)	PETRONAS Gear FL	PETRONAS Gear Syn PAO
		Blowers	Circulating Oil	PETRONAS Circula		PETRONAS Circula Syn
		Compressor	Compressor Oil	PETRONAS Compressor A M2	PETRONAS Compressor A M4	PETRONAS Compressor A Syn PA
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
		Hydraulic System	Hydraulic Fluid	PETRONAS Hydraulic	PETRONAS Hydraulic HV	PETRONAS Hydraulic ESF
		Electric Motor Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	
	Boiler	Grate Bearing	Grease	PETRONAS Grease LiX MEP	PETRONAS Grease LiCa MG HL	PETRONAS Grease LiCa MG HL
		Grate Gearbox / Reducer	Gear Oil	PETRONAS Gear MEP (1)	PETRONAS Gear FL	PETRONAS Gear Syn PAO
		FD abd ID fans	Grease		PETRONAS Grease CaSx	PETRONAS Grease LiX Syn 2/220
Power Generation		Turbine Bearings	Turbine Oil	PETRONAS Jenteram	PETRONAS Jenteram G	PETRONAS Jenteram Syn
		Gearbox	Turbine Oil	PETRONAS Jenteram	PETRONAS Jenteram G	PETRONAS Jenteram Syn
	Power Turbines	Generator Bearings	Grease	PETRONAS Grease Li 2	PETRONAS Grease PU	. Eritorias venteram syn
		Turbine Bearings	Turbine Oil	PETRONAS Grease Li 2	PETRONAS Grease PO PETRONAS Jenteram G	PETRONAS Jenteram Syn

<sup>(1)</sup> Premium Produc