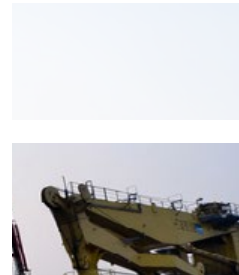


HYDROPURE[®]

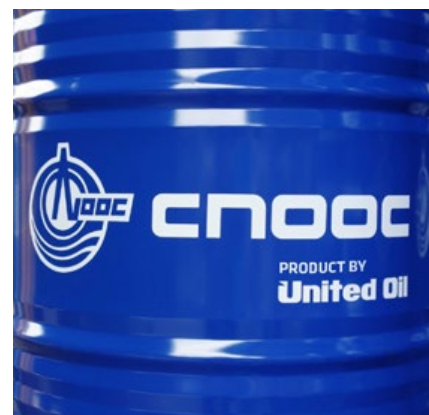
lubricants

Product of **Singapore**



Marine Lubricants

One of the world's largest supplier of oil products.
Quality reliably delivered to your vessels at world class service levels.



CO-OWNED BY



About Us

HydroPure lubricants are products of CNOOC & United Oil tailored for the Global High to Medium Tier Lubricants Market. Industrial & Marine customers and consumers are served with a complete range of products such as oils for engines & hydraulic systems, gear, compressor, turbine, refrigeration and heat transfer oils. Specialty oils, blended for specific performance, for textile industry and metal working fluids are also part of the wide portfolio. Consumers can choose from a range of products for Passenger Cars, vehicles with Diesel Engines and Motorcycles. Products are blended from synthetic oils, oils from new refineries using latest Group 2 hydro-treating technology and additives of leading suppliers from Europe and the US.

Heritage

CNOOC - China National Offshore Oil Corporation is the largest producer of offshore crude oil and natural gas in China and one of the largest independent oil and gas exploration and production companies in the world. The Group has some US\$100 Billion of assets employing over 17,000 employees managing a fully integrated oil company to bring you the full range of oil products.

United Oil is a leading lubricant supplier in the region known for reliability in delivering products that adds value to the customer's business. Strategically located in Singapore, United Oil is dynamic and innovative & employs the latest lubricant technology. The company's products give customers improved performance and prolonged life by superior cleaning & protection



CNOOC Lubes Application

HydroPure D400
High Speed Marine DEO

UniGear S3
Gear and Bearing Oil

UniMar 412 TPEO
on Distillates

UniMar 440 TPEO
on Residual Fuels with High Sulphur

UniMar 570
Cylinder Oil

UniMar 305
System Oil

Vesta Hydraulic Oil HV



LOW-SPEED ENGINES

Product Name	SAE / ISO	BN mg/KOH/g	Density	Viscosity CSt			Flash Pt °C	Pour Pt °C	Application
			15°C	40°C	100°C	VI			
UniMar 305	30	5	0.8666	94.0	11.5	110	238	-21	System Oil Multifunctional Crankcase Lube for low speed marine engines TBN5
UniMar 308	30	8	0.8736	92.9	11.4	110	238	-21	System Oil Multifunctional Crankcase Lube for low speed marine engines TBN8
UniMar 525	50	25	0.9050	209.1	18.5	97	250	-18	Cylinder Oil for low speed 2 stroke marine engines on low sulphur distillate fuels.
UniMar 540	50	40	0.9060	216.2	18.8	97	250	-18	
UniMar 570	50	70	0.9370	200.3	18.1	100	248	-18	Cylinder Oil for low speed 2 stroke marine engines on heavy fuels up to 4% sulphur

MEDIUM-SPEED ENGINES

Product Name	SAE / ISO	BN mg/KOH/g	Density	Viscosity CSt			Flash Pt °C	Pour Pt °C	Application
			15°C	40°C	100°C	VI			
UniMar 330	30	30	0.8954	96.4	11.5	108	235	-18	Trunk Piston Engine Oil for marine diesel engines on residual fuels < 3.5% sulfur.
UniMar 340	30	40	0.9072	94.7	11.4	107	235	-18	Trunk Piston Engine Oil - diesel engines on residual fuels exceeding 3.5% sulfur.
UniMar 430	40	30	0.8993	134.8	14.2	103	248	-21	Trunk Piston Engine Oil for marine diesel engines on residual fuels < 3.5% sulfur.
UniMar 440	40	40	0.9112	138.7	14.7	106	250	-21	Trunk Piston Engine Oil - diesel engines on residual fuels exceeding 3.5% sulfur.
UniMar 312	30	12	0.8799	95.4	11.3	106	232	-18	Trunk Piston Engine Oil for marine diesel engines on distillate fuels. TBN 12
UniMar 315	30	15	0.8829	96.2	11.5	107	232	-18	Trunk Piston Engine Oil for marine diesel engines on distillate fuels. TBN 15
UniMar 320	30	20	0.8867	96.8	11.6	108	232	-21	Trunk Piston Engine Oil for marine diesel engines on distillate fuels. TBN 20
UniMar 412	40	12	0.8821	132.0	14.2	106	238	-21	Trunk Piston Engine Oil for marine diesel engines on distillate fuels. TBN 12
UniMar 415	40	15	0.8897	136.8	14.6	106	242	-21	Trunk Piston Engine Oil for marine diesel engines on distillate fuels. TBN 15
UniMar 420	40	20	0.8962	136.5	14.7	107	254	-21	Trunk Piston Engine Oil for marine diesel engines on distillate fuels. TBN 20

HIGH-SPEED ENGINES

Lubricants	SAE / ISO	BN mg/KOH/g	Density	Viscosity CSt			Flash Pt °C	Pour Pt °C	Application
			15°C	40°C	100°C	VI			
HydroPure D400 (API CH-4/SJ)	15W-40	8.2	0.8770	113.7	14.8	134	228	-33	Multigrade Diesel Engine Oil meeting API CH-4/SJ
HydroPure D200 (API CF-4/SG)	15W-40	11	0.8780	115.1	15.0	135	222	-33	Multigrade Diesel Engine Oil meeting API CF-4/SG
HydroPure D150 (API CF/SF)	40	7.1	0.8820	133.5	14.5	108	235	-24	Monograde Diesel Engine Oil meeting API CF/SF

HYDRAULIC SYSTEMS

Lubricants	SAE / ISO	BN mg/KOH/g	Density		Viscosity CSt		Flash Pt °C	Pour Pt °C	Application
			15°C	40°C	100°C	VI			
Vesta Hydraulic Oil HV Series		15/22/32/46/68/100/150				145-170	>164	< -30	Has shear stable viscosity index improver for year-round protection for pumps & equipment.
Vesta Hydraulic Oil H Series		15/22/32/46/68/100/150				96-120	>170	< -15	Passed Universal Tractor Transmission Oil (UTTO) specs frictional & gear wear req.
Vesta Hydraulic Oil HX Series		32/46/68/100/150				96-105	>164	< -21	Ashless & zinc free for pump containing steelon-bronze lubrication surfaces & silver plate.
Fire-Resistant Hydraulic Fluids		46/68				25	na	-15	Phosphate ester fire resistant fluid. Oxidation & hydrolytic stable & self-extinguishing.

GEAR SYSTEMS

Product Name	SAE / ISO	BN mg/KOH/g	Density		Viscosity CSt		Flash Pt °C	Pour Pt °C	Application
			15°C	40°C	100°C	VI			
UniGear S3 68	68	-	0.8840	67.2	8.6	98	228	-24	For highly loaded enclosed gears & bearings. Extreme Pressure (EP) formulation
UniGear S3 100	100	-	0.8880	98.2	11.1	98	232	-24	
UniGear S3 150	150	-	0.8960	151.0	14.7	96	252	-21	
UniGear S3 220	220	-	0.8980	226.4	19.2	95	260	-18	
UniGear S3 320	320	-	0.9000	327.4	24.4	95	266	-15	
UniGear S3 460	460	-	0.9050	463.0	30.5	95	272	-9	
UniGear S3 680	680	-	0.9120	670.3	48.8	125	268	-15	
Fully Syn Gear & Bearing Oil 150	150	-	0.8650	151.0	19.7	145	235	-42	For highly loaded enclosed gears & bearings. Fully Syn, Extreme Pressure (EP) formulation
Fully Syn Gear & Bearing Oil 220	220	-	0.8710	222.1	25.8	148	234	-42	
Fully Syn Gear & Bearing Oil 320	320	-	0.8600	321.2	35.2	155	245	-39	

GREASE

Product Name	NLGI	Drop Pt °C	4 Ball kgf	Viscosity CSt		Application
				40°C	100°C	
UT250 Lithium EP Grease	2/3	>170	250	220	18	High performance, multipurpose, extreme pressure grease
UL315 Lithium EP Grease with Moly	2/3	>170	315	220	19	High performance, multipurpose, extreme pressure grease with solid lubricant
UX250 Lithium Complex Grease	3	>250	250	220	18	High Temperature, extreme pressure grease with solid lubricant
UW100 Open Gear Wire Rope	-	-	-	600	50	High performance open gear and wire rope grease.

AUXILLIARY LUBRICANTS

HYDRO[®]
PURE

AIR COMPRESSORS

Product Name	SAE / ISO	BN mg/KOH/g	Density	Viscosity CSt			Flash Pt °C	Pour Pt °C	Application
			15°C	40°C	100°C	VI			
Vesta Compressor Oil 32	32	-	0.8730	32	5.44	103	218	-30	High performance lubricant for reciprocating or rotary screw air compressors
Vesta Compressor Oil 46	46	-	0.8790	46.3	6.81	100	226	-30	
Vesta Compressor Oil 68	68	-	0.9050	64.2	8.32	99	230	-30	
Vesta Compressor Oil 100	100	-	0.8880	95.7	10.8	96	235	-33	
Vesta Syn Compressor Oil 32	32	-	0.8434	30.5	5.62	125	228	-21	Fully Syn High performance lubricant for reciprocating or rotary screw air compressors
Vesta Syn Compressor Oil 46	46	-	0.8486	44.2	7.30	127	232	-18	
Vesta Syn Compressor Oil 68	68	-	0.8521	68.2	9.91	128	238	-18	
Vesta Syn Compressor Oil 100	100	-	0.8578	99.8	13.1	129	245	-15	

REFRIGERATION COMPRESSORS

Product Name	SAE / ISO	BN mg/KOH/g	Density	Viscosity CSt			Flash Pt °C	Pour Pt °C	Application
			15°C	40°C	100°C	VI			
Vesta S Refrigerating Oil 68	68	-	0.9140	69.6	7.16	38	200	-33	For use with HCFC & Ammonia Refrigerants. Not suitable for HFC Refrigerant.
Vesta Syn S Refrigerating Oil 46	46	-	0.9010	46.5	5.7	32	218	-39	Fully Syn Lube for use with HCFC & Ammonia Refrigerants. Not suitable for HFC Refrig.
Vesta Syn S Refrigerating Oil 68	68	-	0.9140	69.6	7.16	38	200	-33	

TURBINES

Product Name	SAE / ISO	BN mg/KOH/g	Density	Viscosity CSt			Flash Pt °C	Pour Pt °C	Application
			15°C	40°C	100°C	VI			
Vesta Turbine Oil 32	32	-	0.8700	32.1	5.41	103	218	-24	High performance Lubricant for steam turbine system
Vesta Turbine Oil 46	46	-	0.8710	46.3	6.82	100	226	-30	
Vesta Turbine Oil 68	68	-	0.8800	64.2	8.31	99	232	-30	
Vesta Turbine Oil 100	100	-	0.9140	95.7	10.8	96	238	-33	
Vesta Gas Turbine Oil 32	32	-	0.8620	31.5	5.6	118	220	-18	High performance Lubricant for gas turbine system
Vesta Gas Turbine Oil 46	46	-	0.8650	44.2	7.1	120	228	-18	
Vesta Gas Turbine Oil 68	68	-	0.8700	68.1	9.8	125	230	-18	

HEAT TRANSFER OILS

Product Name	SAE / ISO	BN mg/KOH/g	Density	Viscosity CSt			Flash Pt °C	Pour Pt °C	Application
			15°C	40°C	100°C	VI			
Epsilon Heat Transfer Oil 32	32	-	0.8630	32	5.34	98	220	-24	High performance heat transfer fluid
Epsilon Heat Transfer Oil 46	46	-	0.8690	46	6.69	97	225	-24	
Epsilon Heat Transfer Oil 68	68	-	0.8720	68	8.61	97	228	-24	
Epsilon Heat Transfer Oil 100	100	-	0.8750	100	11.4	100	256	-24	

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