

Shell Marine Products



LUBRICANTS FOR MARINE APPLICATIONS

Product catalogue



COMPREHENSIVE PRODUCTS AND SERVICES

At Shell Marine Products, we offer a wide range of marine lubricants to cover most of your shipboard lubricant requirements. Our comprehensive range of products is designed to provide you with cost-effective protection for modern marine engines and shipboard machinery. We offer multipurpose lubricants designed to simplify on-board inventories and some specialist products, as well as a range of technical services such as Shell Rapid Lubricants Analysis (RLA), Shell ANALEXAlert and feed-rate optimisation programmes to help you maximise the value of these products.

NUMBER-ONE SUPPLIER

For the sixth consecutive year, Shell has been named the number-one global lubricants market share leader, with more than 10,000 vessels using our products. We sold more lubricants in 2011 than any other company in the world according to new research into the global lubricants market conducted by Kline & Company*.

DEDICATED MARINE RESEARCH AND DEVELOPMENT

The Shell Group invests about USD1.1 billion a year in research and development, and employs more than 8,000 technical experts dedicated to developing innovative products such as Shell Alexia S4.



*Kline & Company is a worldwide consulting and research firm. All data has been sourced from Kline & Company's report "Global Lubricants 2011: Market Analysis and Assessment", unless otherwise stated.

PRODUCTS AND TYPICAL PHYSICAL CHARACTERISTICS

We have revised our product portfolio to give you a simplified, yet comprehensive range designed to meet your needs. As part of this work, we have adopted new names. The following table includes both old and new names to help you select the right products. Please contact your Shell representative if you have any questions. Visit www.shell.com/marine to view our latest product portfolio.

OLD PRODUCT NAME	NEW PRODUCT NAME	PRODUCT DESCRIPTION	VISCOSITY, mm ² /s AT		BASE NUMBER mg/KOH/g	FLASH POINT PMCC, °C	POUR POINT, °C	DENSITY, kg/m ³ at 15°C
			40°C	100°C				
LOW-SPEED ENGINES								
Shell Alexia S4	Shell Alexia S4	High-performance cylinder oil for low-speed, crosshead diesel engines	165	15.5	60	>210	<-6	926
Shell Melina S 30	Shell Melina S 30	Advanced multifunctional crankcase system lubricant for low-speed marine diesel engines	104	11.6	5	227	-18	897
MEDIUM-SPEED ENGINES								
Shell Argina S 40	Shell Argina S 40	Lubricant for medium-speed diesel engines operating on low-sulphur residual, blended, distillate or dual fuel conditions	139	14	20	234	-18	909
Shell Argina T 30	Shell Argina T 30	Lubricant for highly rated, medium-speed diesel engines operating on residual fuel under moderate oil stress conditions	110	12	30	212	-18	918
Shell Argina T 40	Shell Argina T 40	Lubricant for highly rated, medium-speed diesel engines operating on residual fuel under moderate oil stress conditions	135	14	30	225	-18	921
Shell Argina X 40	Shell Argina X 40	Lubricant for highly rated, medium-speed diesel engines operating on residual fuel under high oil stress conditions	135	14	40	205	-18	916
Shell Argina XL 40	Shell Argina XL 40	Lubricant for highly rated, medium-speed diesel engines operating on residual fuel under very high oil stress conditions	135	14	50	229	-18	921
Shell Gadinia 30	Shell Gadinia 30	Lubricant for medium-speed, marine diesel engines operating on distillate fuels	104	11.8	12	200+	-18	897
Shell Gadinia 40	Shell Gadinia 40	Lubricant for medium-speed, marine diesel engines operating on distillate fuels	139	14.4	12	225+	-18	900
Shell Gadinia AL 30	Shell Gadinia AL 30	Advanced lubricant for medium-speed, marine diesel engines operating on distillate fuels and where liner lacquering is a potential problem	94.5	11.4	15	>200	-18	893
Shell Gadinia AL 40	Shell Gadinia AL 40	Advanced lubricant for medium-speed, marine diesel engines operating on distillate fuels and where liner lacquering is a potential problem	140	14.3	15	>200	-18	900
Shell Melina 30	Shell Melina 30	Multifunctional crankcase system lubricant for low-speed marine diesel engines and non turbocharged diesel engines operating on distillate fuels	104	11.6	8	227	-18	897
Shell Mysella LA 40	Shell Mysella S3 N 40	High-performance engine oil for four-stroke spark-ignition engines requiring a low ash oil to meet the latest emission requirements	135	13.5	5	230	-18	890

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			40°C	100°C				
			HIGH-SPEED ENGINES					
Shell Sirius 30	Shell Rimula R3+ 30	Monograde, heavy-duty diesel engine oil	93	11	9	242	-18	890
Shell Rimula R4 L 15W-40	Shell Rimula R4 L 15W-40	Low emissions, multigrade, heavy-duty diesel engine oil	118	15.5	10.6	227	-33	883
Shell Sirius 15W-40/ Shell Rimula R3 X 15W-40	Shell Rimula R4 X 15W-40	Multigrade, heavy-duty diesel engine oil	109	14.7	10.5	230	-36	888
Shell Rimula R6 M 10W-40	Shell Rimula R6 M 10W-40	Maintenance saving – fully synthetic, heavy-duty diesel engine oil	90	13.6	15.9	240	-42	867
Shell Rotella DD+ 40	Shell Rotella DD+ 40	Heavy-duty, diesel two-stroke engine oil	138	14.4	8	250	-15	899
Shell Sirius X 40	Shell Sirius X 40	Premium SHPD (super high performance diesel) lubricant	139	14	17	230	-18	890
HYDRAULIC SYSTEMS								
AeroShell Fluid 41	AeroShell Fluid 41	Superclean special application mineral fluid	14.1	5.3	-	105	-60	870
Shell Tellus ARCTIC 32	Shell Tellus S4 VX 32	Special application hydraulic fluid	33.8 (-40/2624)	9.93	-	100	-60	866
Shell Tellus T 15	Shell Tellus S2 V 15	Premium hydraulic lubricant for wide temperature ranges	15	3.8	-	160	-42	871
Shell Tellus T 22	Shell Tellus S2 V 22	Premium hydraulic lubricant for wide temperature ranges	22	4.9	-	176	-42	872
Shell Tellus T 32	Shell Tellus S2 V 32	Premium hydraulic lubricant for wide temperature ranges	32	6.4	-	170	-42	872
Shell Tellus T 46/ Shell Tellus T 37	Shell Tellus S2 V 46	Premium hydraulic lubricant for wide temperature ranges	46	8.2	-	210	-39	872
Shell Tellus T 68	Shell Tellus S2 V 68	Premium hydraulic lubricant for wide temperature ranges	68	10.9	-	230	-36	877
Shell Tellus T 100	Shell Tellus S2 V 100	Premium hydraulic lubricant for wide temperature ranges	100	14.7	-	176	-30	899
Shell Tellus S 46	Shell Tellus S3 M 46	Premium, zinc-free, industrial hydraulic fluid	46	6.8	-	220	-33	865
GEAR SYSTEMS								
Shell Omala 68	Shell Omala S2 G 68	Extreme-pressure lubricant for highly loaded enclosed gears and bearings	68	8.7	-	193	-27	880
Shell Omala 100	Shell Omala S2 G 100	Extreme-pressure lubricant for highly loaded enclosed gears and bearings	100	11.4	-	195	-27	880
Shell Omala 150	Shell Omala S2 G 150	Extreme-pressure lubricant for highly loaded enclosed gears and bearings	150	15	-	198	-21	884
Shell Omala 220	Shell Omala S2 G 220	Extreme-pressure lubricant for highly loaded enclosed gears and bearings	220	19	-	204	-18	900
Shell Omala 320	Shell Omala S2 G 320	Extreme-pressure lubricant for highly loaded enclosed gears and bearings	320	25	-	210	-15	893

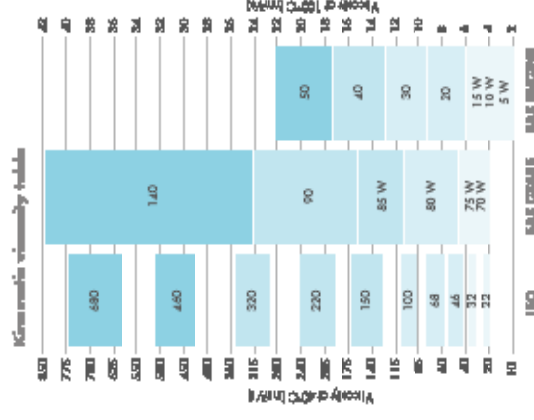
OLD PRODUCT NAME	NEW PRODUCT NAME	PRODUCT DESCRIPTION	VISCOSITY, mm ² /s AT		BASE NUMBER mg/KOH/g	FLASH POINT PMCC, °C	POUR POINT, °C	DENSITY, kg/m ³ at 15°C
			40°C	100°C				
			GEAR SYSTEMS					
Shell Omala 460	Shell Omala S2 G 460	Extreme-pressure lubricant for highly loaded enclosed gears and bearings	460	31.8	-	216	-9	897
Shell Omala 680	Shell Omala S2 G 680	Extreme-pressure heavy-duty gear lubricant for highly loaded enclosed gears and bearings	680	38	-	272	-9	912
Shell Omala F 220	Shell Omala F 220	Very-high-performance industrial gear oil	220	19.4	-	199	-18	899
Shell Omala HD 150	Shell Omala S4 GX 150	Advanced synthetic extreme-pressure lubricant for heavy-duty enclosed gears and bearings	157.7	21.7	-	238	-45	877
Shell Omala HD 220	Shell Omala S4 GX 220	Advanced synthetic extreme-pressure lubricant for heavy-duty enclosed gears and bearings	220	25.8	-	245	-48	853
Shell Omala HD 320	Shell Omala S4 GX 320	Advanced synthetic extreme-pressure lubricant for heavy-duty enclosed gears and bearings	335	40	-	252	-42	883
Shell Tivela S 220	Shell Omala S4 WE 220	Advanced synthetic heavy-duty gear lubricant for special applications	220	34.4	-	298	-39	1074
AIR COMPRESSORS								
Shell Corena P 100	Shell Corena S2 P 100	High-performance lubricant for reciprocating air compressors	100	9.2	-	240	-33	899
Shell Corena P 150	Shell Corena S2 P 150	High-performance lubricant for reciprocating air compressors	155	12.1	-	240	-30	902
Shell Corena AP 100	Shell Corena S4 P 100	Advanced synthetic lubricant for reciprocating air compressors	100	10.2	-	260	-39	988
Shell Corena AS 46	Shell Corena S4 R 46	Advanced synthetic lubricant for rotary-screw and vane air compressors	46	8	-	235	-33	854
Shell Corena AS 68	Shell Corena S4 R 68	Advanced synthetic lubricant for rotary-screw and vane air compressors	68	11	-	240	-33	859
REFRIGERATION COMPRESSORS								
Shell Clavus R 32	Shell Refrigeration Oil S4 FR-F 32	Synthetic refrigerant lubricant for use with R134a and other HFC refrigerants	32	6	-	255	-54	1018
Shell Clavus R 68	Shell Refrigeration Oil S4 FR-F 68	Synthetic refrigerant lubricant for use with R134a and other HFC refrigerants	64	8.6	-	250	-42	990
Shell Clavus R 100	Shell Refrigeration Oil S4 FR-F 100	Synthetic refrigerant lubricant for use with R134a and other HFC refrigerants	93	10.9	-	280	-42	990
Shell Clavus AB 32	Shell Refrigeration Oil S4 FR-V 32	Synthetic refrigerant lubricant for use with HCFC and ammonia refrigerants	30	4.2	-	180	-42	888
Shell Clavus AB 68	Shell Refrigeration Oil S4 FR-V 68	Synthetic refrigerant lubricant for use with HCFC and ammonia refrigerants	68	6	-	190	-42	871
Shell Clavus AB 100	Shell Refrigeration Oil S4 FR-V 100	Synthetic refrigerant lubricant for use with HCFC and ammonia refrigerants	107	7.2	-	200	-36	869

OLD PRODUCT NAME	NEW PRODUCT NAME	PRODUCT DESCRIPTION	VISCOSITY, mm ² /s AT		BASE NUMBER mg/KOH/g	FLASH POINT PMCC, °C	POUR POINT, °C	DENSITY, kg/m ³ at 15°C
			40°C	100°C				
			GAS COMPRESSORS					
Shell Madrela T	Shell Gas Compressor Oil S4 PV 190	Advanced synthetic gas compressor oil	190	36	-	262	-30	1056
Shell Strombus MP	Shell Strombus MP	Emulsifiable stern tube oil	273	-	-	200	-5	900
STERN TUBES								
BEARING AND CIRCULATION SYSTEMS								
Shell Morlina 150	Shell Morlina S2 B 150	Advanced bearing and circulating oil	150	15	-	262	-15	887
Shell Omala RL 220	Shell Morlina S4 B 220	Synthetic high-performance anti-wear lubricant for bearings, enclosed gears and circulation systems	220	25.9	-	240	-48	853
Shell Omala RL 320	Shell Morlina S4 B 320	Synthetic high-performance anti-wear lubricant for bearings, enclosed gears and circulation systems	320	33.8	-	270	-45	854
Shell Omala RL 460	Shell Morlina S4 B 460	Synthetic high-performance anti-wear lubricant for bearings, enclosed gears and circulation systems	460	45.5	-	274	-42	855
TURBINES								
Shell Turbo T 32	Shell Turbo T 32	High-performance steam turbine oil	32	5.2	-	>215	<-12	871
Shell Turbo T 46	Shell Turbo T 46	High-performance steam turbine oil	46	6.6	-	220	<-12	874
Shell Turbo T 68	Shell Turbo T 68	High-performance steam turbine oil	68	8.5	-	240	-9	876
Shell Turbo T 100	Shell Turbo T 100	High-performance steam turbine oil	100	11.4	-	250	-9	881
TRANSMISSIONS								
Shell Donax TX	Shell Spirax S4 ATF HDX	Advanced, synthetic technology, heavyduty automatic transmission fluid	33.2	7.2	-	185	-48	847
Shell Donax TD 10W30	Shell Spirax S4 TXM	Premium SAE 10W-30 universal transmission and hydraulic oil	60	9.4	-	220	-42	882
Shell Spirax AX 80W-90	Shell Spirax S3 AX 80W-90	High-performance GL-5 axle oil for general applications	169	16.8	-	220	-30	900
OTHER OILS AND FLUIDS								
Shell Nautilus Premium Outboard	Shell Nautilus Premium Outboard	High-performance engine oil for gasoline outboard motors	38	7	-	70	-35	871
Shell Thermia B	Shell Heat Transfer Oil S2	High-performance heat transfer fluid	25	4.7	-	220	-12	866

OLD PRODUCT NAME	NEW PRODUCT NAME	PRODUCT DESCRIPTION	VISCOSITY, mm ² /s AT		NLGI	DROPPING POINT, °C
			40°C	100°C		
GREASES						
Shell Alvania RL 3	Shell Gadus S2 V100 3	General-purpose, anti-wear grease recommended for the lubrication of electric motor bearings	100	11	3	180
Shell Rhodina EP LF 2	Shell Gadus S2 A320 2	Highly water resistant, extreme-pressure grease for wire rope, open gears and other open deck grease requirements	320	16	2	260
Shell Alvania EP LF 0	Shell Gadus S2 V220 0	General-purpose, extreme-pressure grease	220	19	0	-
Shell Alvania EP LF 2	Shell Gadus S2 V220 2	General-purpose, extreme-pressure grease	189	15.6	2	180
Shell Refinax WR 2/Shell Alvania WR 2	Shell Gadus S2 V220AC 2	High-performance, multipurpose, extreme-pressure grease	220	18	2	175
Shell Alvania HDX 2	Shell Gadus S2 V220AD 2	High-performance, heavy-duty grease containing solid lubricants	160	15.5	2	188
Shell Alvania EP(LF) 1	Shell Gadus S2 V220 1	High-performance, multipurpose, extreme-pressure grease	220	19	1	180
Shell Albida EP 2	Shell Gadus S3 V220C 2	Top-performance, high-temperature, extreme-pressure multipurpose grease	220	19	2	260
Shell Malleus GL 95	Shell Gadus S2 OG 40	High-performance open gear and wire rope grease	660	40		
Shell Malleus GL 205	Shell Gadus S2 OG 50	High-performance open gear and wire rope grease	870	50		
Shell Stamina EP 2	Shell Gadus S3 T220 2	Ultimate-performance, extreme-pressure diurea grease	220	19	2	260
Shell Albida EMS 2	Shell Gadus S5 V100 2	Advanced multipurpose grease	100	14	2	260
Shell Albida GC 1	Shell Gadus S3 High Speed Coupling Grease	Premium gear-coupling grease	700	34	1	>150

VISCOSITY RANGE OF ISO VISCOSITY GRADES			
ISO viscosity grade	Viscosity range, mm ² /s (cSt) at 40°C	ISO viscosity grade	Viscosity range, mm ² /s (cSt) at 40°C
ISO VG 2	1.98-2.42	ISO VG 68	61.2-74.8
ISO VG 3	2.88-3.52	ISO VG 100	90-110
ISO VG 5	4.14-5.06	ISO VG 150	135-165
ISO VG 7	6.12-7.48	ISO VG 220	198-242
ISO VG 10	9.0-11.0	ISO VG 320	288-352
ISO VG 15	13.5-16.5	ISO VG 460	414-506
ISO VG 22	19.8-24.2	ISO VG 680	612-748
ISO VG 32	28.8-35.2	ISO VG 1000	900-1,100
ISO VG 46	41.4-50.6	ISO VG 1500	1,350-1,650

GREASE NLGI CLASSIFICATION	
NLGI consistency	Cone penetration (worked)
6	85-115
5	130-160
4	175-205
3	220-250
2	265-295
1	310-340
0	355-385
00	400-430
000	445-475



HEALTH, SAFETY, SECURITY AND ENVIRONMENT

Shell Marine Products has a clear commitment to health, safety, security and the environment, and works continuously to embed a safety culture throughout its organisation. We apply rigorous operating procedures and quality standards, and the latest technologies to enable safe and reliable deliveries to our customers. The standards we set for ourselves are also those we insist on from the contractors and partners working on our behalf.

Our operational procedures focus on safe, secure and efficient delivery of lubricants to all customers in all the locations where we are present.

In this way, we aim to have a health, safety, security and environmental performance that we can be proud of and that earns the confidence of customers, shareholders and society at large.



FIND OUT MORE

For more information on our products or their applications, please contact your Shell Marine Products representative or email to smp-marketing@shell.com.

Visit www.shell.com/marine

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