

Shell Marine Products



LUBRICANTS FOR MARINE APPLICATIONS

Product catalogue



YOU CAN RELY ON SHELL MARINE PRODUCTS

Shell Marine Products aims to give you peace of mind by delivering the right products and technical services when and where you need them, and through its technology and marine industry knowledge.

THE RIGHT PRODUCTS

We can help to remove the stress of managing multiple suppliers by offering one-stop access to a comprehensive range of high-quality products. For the ninth consecutive year, Shell has been named the number-one global lubricants market share leader according to Kline and Company.*

Our products are designed to meet your current and anticipated needs. This helps you to relax in the knowledge that your lubricated equipment is well protected and operating efficiently. We can also make it easier to select the right products for your equipment, operating conditions and business needs.



DEDICATED SERVICE AND SECURED DELIVERY

Through more than 30 lubricant blending plants and secured delivery in all major ports worldwide, you can be confident in our ability to keep your business moving by being able to deliver the products you need, when and where you need them. We are continuously expanding our port coverage as part of our commitment to give you peace of mind. You can order these lubricants at any time by telephone, email or fax through our international customer service centre. Visit www.psg.shell.com for a complete list of the ports in the Shell Marine Products network and its product portfolio.

TECHNICAL SERVICES THAT IMPROVE YOUR EQUIPMENT RELIABILITY

Peace of mind also comes from knowing that you can improve the reliability of your equipment and have the training and expertise to solve lubrication challenges that might arise. Our technical services are designed to recommend the right products for your needs, offer flexible training programmes, help to optimise equipment performance and analyse and diagnose lubricant-related problems.

EXPERIENCED PARTNER WITH MARINE KNOWLEDGE

With Shell Marine Products, you have an experienced partner that continues to invest in the future. Our current products and services are backed by over 100 years of pioneering marine technology. As part of the Shell Group, we have been the largest investor in research and development among the international oil and gas companies on a cumulative basis since 2007. Shell Projects and Technology employs more than 14,000 technical

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.

AS PART OF ITS INTERNATIONAL OFFERING, SHELL MARINE PRODUCTS OFFERS THE FOLLOWING RANGE OF BRANDED TECHNICAL SERVICES

TECHNICAL SERVICE	DESCRIPTION
Shell LubeAdvisor	Technical support services, lubrication surveys and audits, storage and handling advice
Shell LubeCoach	Empower your staff with our training
Shell LubeExpert	Specialist on-site critical application support and inspections by application, marine and product experts
Shell Lube Monitor	Cylinder condition monitoring
Shell Rapid Lubricants Analysis	Laboratory oil condition monitoring tools service
Shell Rapid Lubricants Additives	

IS AND TYPICAL PHYSICAL CHARACTERISTICS

are designed to meet your current and anticipated needs, and to help you relax with the knowledge that your lubricated equipment is well protected and operating efficiently. Please contact your Shell representative if you have any questions. Visit www.shell.com/marine to view our latest product portfolio.

NAME	PRODUCT DESCRIPTION	SAE GRADE	VISCOSITY, mm ² /s AT		BASE NUMBER, mg/KOH/g	FLASH POINT, °C	POUR POINT, °C	DENSITY, kg/m ³ AT 15°C
			40°C	100°C				
LOW-SPEED ENGINES								
53	Cylinder oil for low-speed, two-stroke diesel engines entering Emission Control Areas. Suitable for use with engines burning low-sulphur and distillate fuels with up to 0.5% sulphur. Viscosity index >95	50	–	19.5	25	235	–15	908
54	High-performance cylinder oil with a viscosity index >95 for low-speed, crosshead diesel engines	40	–	15.8	60	>210	<–6	926
56	Cylinder oil for low-speed, two-stroke diesel engines running under conditions of extreme oil stress. Suitable for use with engines burning residual fuel with sulphur levels above 1.0%. Viscosity index >95	50	–	16.9	100	>210	<–6	954
50	High-quality cylinder oil for low-speed, two-stroke diesel engines burning heavy fuel oil. Viscosity index >95	50	–	19.5	70	>205	<–6	932
5 30	Advanced multifunctional crankcase system lubricant for low-speed marine diesel engines	30	104	11.6	5	227	–18	888
MEDIUM-SPEED ENGINES								
5 40	Lubricant for medium-speed diesel engines operating on low-sulphur residual, blended, distillate or dual fuel conditions	40	135	14.0	20	234	–18	909
T 30	Lubricant for highly rated, medium-speed diesel engines operating on residual fuel under moderate oil stress conditions	30	110	12.0	30	212	–18	918
T 40	Lubricant for highly rated, medium-speed diesel engines operating on residual fuel under moderate oil stress conditions	40	135	14.0	30	225	–18	921
X 40	Lubricant for highly rated, medium-speed diesel engines operating on residual fuel under high oil stress conditions	40	135	14.0	40	205	–18	916
XL 40	Lubricant for highly rated, medium-speed diesel engines operating on residual fuel under very high oil stress conditions	40	135	14.0	50	229	–18	921
ila 30	Lubricant for medium-speed, marine diesel engines operating on distillate fuels	30	104	11.8	12	>200	–18	897
ila 40	Lubricant for medium-speed, marine diesel engines operating on distillate fuels	40	139	14.4	12	>225	–18	900
ila AL 30	Advanced lubricant for medium-speed, marine diesel engines operating on distillate fuels and where liner lacquering is a potential problem	30	95	11.4	15	>200	–18	893
ila AL 40	Advanced lubricant for medium-speed, marine diesel engines operating on distillate fuels and where liner lacquering is a potential problem	40	140	14.3	15	>200	–18	900
la S3 N 40	High-performance engine oil for four-stroke spark-ignition gas engines requiring a low-wash oil to meet the latest emission requirements	40	135	13.5	5	230	–18	890

NAME	PRODUCT DESCRIPTION	SAE GRADE	VISCOSITY, mm ² /s AT		BASE NUMBER, mg/KOH/g	FLASH POINT, °C	POUR POINT, °C	DENSITY, kg/m ³ AT 15°C
HIGH-SPEED ENGINES								
la R3+ 30	Monograde, heavy-duty diesel engine oil	30	93	11.0	9	242	-18	890
la R4 L 15W-40	Lowemissions, multigrade, heavy-duty diesel engine oil	-	115	15.5	10	227	-33	883
la R4 X 15W-40	Multigrade, heavy-duty diesel engine oil	-	109	14.7	10.5	230	-36	881
la R6 M 10W-40	Maintenance saving - fully synthetic, heavy-duty diesel engine oil	-	83	13.2	13	256	-36	848
la DD+ 40	Heavy-duty, diesel two-stroke engine oil	40	138	14.4	8	250	-15	899
X 40	Premium SHPD (super high performance diesel) lubricant	40	139	14.0	17	230	-18	890
ENVIRONMENTALLY ACCEPTABLE LUBRICANTS								
elle HF-E 46	Synthetic ester based, advanced hydraulic fluid for use in applications requiring vessel general permit (VGP) compliance. Approved for use in major OEMs' stabilisers and controllable-pitch propellers. Holds ISO 15380 (HEES) and DIN 51524 part 2 and 3. Ecolabel registered for VGP 2013 compliance		47	9.4	-	322	-42	921
elle HF-E 68	Synthetic ester based, advanced hydraulic fluid for use in applications requiring VGP compliance. Approved for use in major OEMs' stabilisers, controllable-pitch propellers and stern tubes. Holds ISO 15380 (HEES) and DIN 51524 part 2 and 3. Ecolabel registered for VGP 2013 compliance		68	12.3	-	320	-42	924
elle S4 Gear	Fully saturated ester based gear fluid for use in thrusters and propulsion drives and certain stern tube designs. Superior load-carrying performance while maintaining biodegradability. Ecolabel registered for VGP 2013 compliance		68	11.0	-	>180	-24	909
elle S4 Gear	Fully saturated ester based gear fluid for use in thrusters and propulsion drives and certain stern tube and controllable-pitch propeller designs. Superior load-carrying performance while maintaining biodegradability. Ecolabel registered for VGP 2013 compliance		100	14.0	-	280	-24	919
elle S4 Gear	Fully saturated ester based gear fluid for use in thrusters and propulsion drives and certain stern tube designs. Superior load-carrying performance while maintaining biodegradability. Ecolabel registered for VGP 2013 compliance		150	18.0	-	280	-24	927
elle S4 Stern Tube	Non-emulsifying, fully saturated fluid approved by the major stern tube OEMs and holding the Ecolabel for VGP 2013 compliance. Designed to offer superior lubrication performance while maintaining biodegradability		100	13.7	-	>230	-30	941
NAME	PRODUCT DESCRIPTION	BASE	VISCOSITY, mm ² /s AT		NLGI	AVERAGE DROPPING POINT, °C	OPERATING TEMP, °C	
ENVIRONMENTALLY ACCEPTABLE LUBRICANTS								
elle Grease S5	Advanced, biodegradable, extreme-pressure grease for use in plain and roller bearings and for general vessel lubrication. Approved by major rudder carrier and deck machinery OEMs. Ecolabel registered for VGP 2013 compliance	Lithium	120	19	2	180	-35 to +100	
elle S2 Wire Rope	A high-performance, fully biodegradable lubricant for use on wire ropes, cables and open gears offering high resistance to water wash-off while maintaining outstanding adhesion properties. Complies with the VGP 2013 definitions	Calcium	>550	>80	1-2	120	-20 to +100	

NAME	PRODUCT DESCRIPTION	VISCOSITY, mm ² /s AT		BASE NUMBER, mg/KOH/g	FLASH POINT, °C	POUR POINT, °C	DENSITY, kg/m ³ AT 15°C
		40°C	100°C				
HYDRAULIC SYSTEMS							
Fluid 41	Superclean special application mineral fluid	14.1	5.3	—	105	<-60	870
S2 V 1.5	Premium hydraulic lubricant for wide temperature ranges	15	3.8	—	170	-42	872
S2 V 22	Premium hydraulic lubricant for wide temperature ranges	22	4.8	—	190	-42	872
S2 V 32	Premium hydraulic lubricant for wide temperature ranges	32	6.1	—	210	-39	872
S2 V 46	Premium hydraulic lubricant for wide temperature ranges	46	7.9	—	225	-36	872
S2 V 68	Premium hydraulic lubricant for wide temperature ranges	68	10.5	—	225	-30	877
S2 V 100	Premium hydraulic lubricant for wide temperature ranges	100	14	—	225	-30	880
S3 M 46	Premium, zinc-free, industrial hydraulic fluid	46	6.8	—	220	-33	865
S4 VX 32	Ultra-low-temperature hydraulic fluid	33.8 (2,624 at -40°C)	9.9	—	>100	-60	890
GEAR SYSTEMS							
a S2 G 68	Extreme-pressure lubricant for highly loaded enclosed gears and bearings	68	8.7	—	236	-24	887
a S2 G 100	Extreme-pressure lubricant for highly loaded enclosed gears and bearings	100	11.4	—	240	-24	891
a S2 G 150	Extreme-pressure lubricant for highly loaded enclosed gears and bearings	150	15.0	—	240	-24	897
a S2 G 220	Extreme-pressure lubricant for highly loaded enclosed gears and bearings	220	19.4	—	240	-18	899
a S2 G 320	Extreme-pressure lubricant for highly loaded enclosed gears and bearings	320	25.0	—	250	-15	903
a S2 G 460	Extreme-pressure lubricant for highly loaded enclosed gears and bearings	460	30.8	—	260	-12	904
a S2 G 680	Extreme-pressure heavy-duty gear lubricant for highly loaded enclosed gears and bearings	680	38.0	—	270	-9	912
a S4 GX 150	Advanced synthetic extreme-pressure lubricant for heavy-duty enclosed gears and bearings	158	21.7	—	238	-45	877
a S4 GX 220	Advanced synthetic extreme-pressure lubricant for heavy-duty enclosed gears and bearings	230	30.0	—	250	-45	881
a S4 GX 320	Advanced synthetic extreme-pressure lubricant for heavy-duty enclosed gears and bearings	335	40.0	—	252	-42	883
a S4 WE 220	Advanced synthetic heavy-duty gear lubricant for special applications	222	34.4	—	278	-39	1,074

NAME	PRODUCT DESCRIPTION	VISCOSITY, mm ² /s AT		BASE NUMBER, mg/KOH/g	FLASH POINT, °C	POUR POINT, °C	DENSITY, kg/m ³ AT 15°C
		40°C	100°C				
AIR COMPRESSORS							
a 52 P 100	High-performance lubricant for reciprocating air compressors	100	9.2	-	240	-33	899
a 52 P 150	High-performance lubricant for reciprocating air compressors	155	12.1	-	240	-30	902
a 54 P 100	Advanced synthetic lubricant for reciprocating air compressors	100	10.2	-	260	-39	988
a 54 R 46	Advanced synthetic lubricant for rotary-screw and vane air compressors	46	7.7	-	230	-45	843
a 54 R 68	Advanced synthetic lubricant for rotary-screw and vane air compressors	68	10.2	-	248	-45	848
REFRIGERATION COMPRESSORS							
eration Oil	Synthetic refrigerant lubricant for use with R134a and other HFC refrigerants	31	6.0	-	>220	-54	1,018
eration Oil	Synthetic refrigerant lubricant for use with R134a and other HFC refrigerants	66	8.8	-	>230	-42	991
eration Oil	Synthetic refrigerant lubricant for use with R134a and other HFC refrigerants	94	10.7	-	>230	-42	984
eration Oil	Synthetic refrigerant lubricant for use with HCFC and ammonia refrigerants	29	4.1	-	180	-45	870
eration Oil	Synthetic refrigerant lubricant for use with HCFC and ammonia refrigerants	68	6.2	-	190	-39	871
GAS COMPRESSORS							
ompressor Oil	Advanced synthetic gas compressor oil	190	36.0	-	262	-30	1,056
BEARING AND CIRCULATION SYSTEMS							
ia 52 B 150	Advanced bearing and circulating oil	150	15.0	-	262	-15	887
ia 54 B 220	Synthetic high-performance anti-wear lubricant for bearings, enclosed gears and circulation systems	220	28	-	275	-45	854
ia 54 B 320	Synthetic high-performance anti-wear lubricant for bearings, enclosed gears and circulation systems	320	37	-	275	-45	854
ia 54 B 460	Synthetic high-performance anti-wear lubricant for bearings, enclosed gears and circulation systems	460	51	-	275	-33	855

NAME	PRODUCT DESCRIPTION	VISCOSITY, mm ² /s AT		BASE NUMBER, mg/KOH/g	FLASH POINT, °C	POUR POINT, °C	DENSITY, kg/m ³ AT 15°C
		40°C	100°C				
TURBINES							
T 32	High-performance steam turbine oil	32	5.45	—	>215	<-33	840
T 46	High-performance steam turbine oil	46	6.9	—	>220	<-27	858
T 68	High-performance steam turbine oil	68	8.95	—	>240	<-24	871
T 100	High-performance steam turbine oil	100	11.7	—	>250	<-24	873
TRANSMISSIONS							
x S3 AX 80W-90	High-performance GL-5 axle oil for general applications	169	16.8	—	220	-30	900
x S4 ATF HDX	Advanced, synthetic technology, heavy-duty automatic transmission fluid	33	7.2	—	152	-48	847
x S4 TXM	Premium SAE 10W-30 universal transmission and hydraulic oil	60	9.4	—	220	-42	882
OTHER OILS AND FLUIDS							
ilus Premium Outboard	High-performance engine oil for gasoline outboard motors	38	7.0	—	70	-35	871
Transfer Oil S2	High-performance heat transfer fluid	29	5.1	—	220	-12	857
NAME	PRODUCT DESCRIPTION	VISCOSITY, mm ² /s AT		NLGI	DROPPING POINT, °C		
		40°C	100°C				
GREASES							
s S2 A320 2	Highly water resistant, extreme-pressure grease for wire rope, open gears and other open deck grease requirements	320	16.5	2	85		
s S2 OG 40	High-performance open gear and wire rope grease	655	40.0	—	—		
s S2 OG 50	High-performance open gear and wire rope grease	870	50.0	—	—		
s S2 V100 3	General-purpose, anti-wear grease recommended for the lubrication of electric motor bearings	100	11.0	3	180		
s S2 V220 0	High-performance, multipurpose, extreme-pressure grease	220	19.0	0	—		
s S2 V220 1	High-performance, multipurpose, extreme-pressure grease	220	19.0	1	180		
s S2 V220 2	High-performance, multipurpose, extreme-pressure grease	220	19.0	2	180		
s S2 V220AC 2	High-performance, water-resistant, extreme-pressure grease	220	18.0	2	180		
s S2 V220AD 2	High-performance, heavy-duty grease containing solid lubricants	220	18.0	2	175		
s S3 High Speed Coupling Grease	Premium gearcoupling grease	700	34.0	1	>150		
s S3 T220 2	Ultimate-performance, extreme-pressure diurea grease	220	19.0	2	260		
s S3 V220C 2	Top-performance, high-temperature, extreme-pressure multipurpose grease	220	19.0	2	240		
s S5 V100 2	Advanced multipurpose grease	100	14.0	2	260		

VISCOSITY RANGE OF ISO VISCOSITY GRADES				GREASE NLGI CLASSIFICATION	
ISO viscosity grade	Viscosity range, mm ² /s (cSt) at 40°C	ISO viscosity grade	Viscosity range, mm ² /s (cSt) at 40°C	NLGI consistency	Cone penetration (worked)
ISO VG 2	1.98-2.42	ISO VG 68	61.2-74.8	6	85-115
ISO VG 3	2.88-3.52	ISO VG 100	90-110	5	130-160
ISO VG 5	4.14-5.06	ISO VG 150	135-165	4	175-205
ISO VG 7	6.12-7.48	ISO VG 220	198-242	3	220-250
ISO VG 10	9.0-11.0	ISO VG 320	288-352	2	265-295
ISO VG 15	13.5-16.5	ISO VG 460	414-506	1	310-340
ISO VG 22	19.8-24.2	ISO VG 680	612-748	0	355-385
ISO VG 32	28.8-35.2	ISO VG 1000	900-1,100	00	400-430
ISO VG 46	41.4-50.6	ISO VG 1500	1,350-1,650	000	445-475

