

ENGINEERED FOR LIFE AT SEA.

Marine Lubricants

Cylinder, trunk-piston and system oils for the engine room, plus hydraulic, gear, compressor, refrigeration and turbine oils and grease for the machinery around it.

Dibuat untuk operasi berkelanjutan di laut

Dari oli silinder, trunk piston, dan oli sistem di kamar mesin hingga oli untuk mesin geladak, kompresor udara, refrigerasi, dan turbin — seluruh kapal



WHY MOTTA

One supplier for the engine room and the deck.

Dari kamar mesin sampai geladak, satu pemasok

MOTTA supplies marine lubricants to ship-supply companies, ship managers and distributors, and runs private-label programmes under your own brand. Direct export supply, produced by our long-term manufacturing partner in China, contracted and invoiced by TIANSHU ENERGY GROUP CO., LIMITED in Hong Kong.

MOTTA memasok pelumas kelautan untuk pemasok kapal, perusahaan manajemen kapal, dan distributor, serta memproduksi dengan merek Anda. Pasokan ekspor langsung, diproduksi oleh mitra manufaktur jangka panjang kami di Tiongkok, dikontrak dan difakturkan oleh TIANSHU ENERGY GROUP CO., LIMITED di Hong Kong.

WHAT WE SUPPLY

Cylinder oil · Trunk-piston oil · System oil

Hydraulic · Gear · Compressor · Refrigeration · Turbine · Grease

Oli silinder · oli trunk piston · oli sistem · hidrolik · roda gigi · kompresor udara · refrigerasi · turbin · gemuk

BN 30–70

engine oils by fuel sulphur

15–25

working days to ship

EN TDS

for every product

BN 30–70 dipilih menurut kandungan sulfur · pengiriman 15–25 hari kerja · TDS bahasa Inggris untuk setiap produk

RETAIL-PACK SAMPLES

Free; you pay the freight, or it is credited to your first order.

Sampel kemasan ritel gratis

ONE VESSEL OR A FLEET

One container can mix engine and machinery oils; trial quantities considered.

Satu kapal atau seluruh armada

YOUR OWN BRAND

Label design is free. We print your brand on 18L pails and 200L drums.

Produksi label pribadi

24-HOUR REPLY

A real person answers every enquiry, weekends included.

Dijawab dalam 24 jam



MOTTA 200L drums loaded for export

APPLICATION MAP

Find the machine. The oil follows.

Temukan peralatannya, olinya menyusul

EQUIPMENT	WHAT THE MANUAL ASKS FOR	MOTTA PRODUCT	PACKS
Medium-speed trunk-piston engines Mesin diesel trunk piston kecepatan menengah (mesin induk dan bantu)	Trunk-piston engine oil, BN matched to the fuel SAE 40	MAR403 (BN 30) · MAR404 (BN 40) Higher BN for higher-sulphur fuel	18L · 200L
Low-speed crosshead engines: cylinders Mesin diesel crosshead dua tak kecepatan rendah — silinder	Cylinder oil, BN matched to fuel sulphur SAE 50	MC504 (BN 40) · MC507 (BN 70) Feed rate per the engine builder's guidance	18L · 200L
Low-speed crosshead engines: crankcase Mesin diesel crosshead kecepatan rendah — bak engkol	System oil SAE 30	MS630 · MS830 Oli sistem	18L · 200L
SAE 40 crankcase and circulating systems Bak engkol dan sistem sirkulasi yang meminta SAE 40	System oil SAE 40	MS640 · MS840 Oli sistem	18L · 200L
Deck machinery and steering gear hydraulics Mesin geladak dan hidrolik mesin kemudi	Anti-wear hydraulic oil HM ISO VG 32, 46 or 68	Y200 hydraulic oil Oli hidrolik anti-aus	18L · 200L
Deck cranes, winches and enclosed gearboxes Derek geladak, winch, dan gearbox tertutup	Industrial gear oil CLP ISO VG 150 to 460	L500 gear oil Oli roda gigi industri	18L · 200L
Starting-air and service-air compressors Kompresor udara start dan udara servis	Air compressor oil ISO VG 68 to 150	S600 compressor oil Oli kompresor udara	18L · 200L
Provision stores and cargo refrigeration Ruang pendingin provisi dan pendingin muatan	Refrigeration compressor oil, by refrigerant Per compressor maker	RC300 (ammonia) · RC500 (HFC, CO2) Confirm the refrigerant first	18L · 200L
Steam turbines and circulating systems Turbin dan sistem sirkulasi	R&O turbine oil ISO VG 32 to 100	T50 turbine oil Oli turbin	18L · 200L
Bearings, deck fittings and grease points Bantalan, perlengkapan geladak, dan titik pelumasan	Lithium EP grease NLGI 0 to 3	EP grease Gemuk lithium EP	18L · 200L

SEND THE ENGINE, THE FUEL AND THE OIL IN USE.

The engine builder's requirement governs. Send the model, the fuel sulphur and a used-oil analysis if you have one.

Persyaratan produsen mesin induk menjadi acuan — sebutkan model mesin dan kandungan sulfur bahan bakar, lebih baik lagi bila ada hasil analisis oli.

RELIABILITY STARTS IN THE ENGINE ROOM.

Cylinder and trunk-piston oils with the BN matched to the fuel you burn.

Keandalan dimulai dari kamar mesin.

MARINE ENGINE OILS

Trunk-piston and cylinder oils.

Oli trunk piston dan oli silinder

Medium-speed trunk-piston engines burning residual fuel, and low-speed crosshead engine cylinders. The BN follows the sulphur in the fuel; the engine builder's guidance sets the grade and feed rate.

Mesin diesel trunk piston kecepatan menengah berbahan bakar minyak berat dan silinder mesin crosshead kecepatan rendah. BN dipilih menurut kandungan sulfur; grade dan laju pengumpanan mengikuti panduan produsen mesin induk

MOTTA MAR403

BN 30

Trunk-piston oil, BN 30, medium-speed engines on residual fuel

SAE 40

Packs: 18L · 200L

MOTTA MAR404

BN 40

Trunk-piston oil, BN 40, for higher-sulphur residual fuel

SAE 40

Packs: 18L · 200L

MOTTA MC504

BN 40

Cylinder oil, BN 40, lower-sulphur fuel (about 0.5–2.0 % S)

SAE 50

Packs: 18L · 200L

MOTTA MC507

BN 70

Cylinder oil, BN 70, high-sulphur residual fuel

SAE 50

Packs: 18L · 200L



MOTTA 200L drum · 18L pail also available

Too low a BN leaves acid behind. Too high builds deposits.

Send your fuel sulphur and a used-oil or scrape-down analysis: we read it with you and confirm the BN.

BN terlalu rendah tidak menetralkan asam, terlalu tinggi menimbulkan deposit — kirimkan kandungan sulfur dan hasil analisis oli kepada kami.

PRODUCT TECHNICAL PROFILE

MOTTA MAR403 and MAR404 trunk-piston oils.

Oli mesin trunk piston MOTTA MAR403 dan MAR404

MOTTA MAR403

Premium Marine Trunk Piston Engine Oil TBN 30

SAE 40

MOTTA MAR404

High Performance Marine Trunk Piston Engine Oil TBN 40

SAE 40



PROPERTY	UNIT	MAR403 SAE 40	MAR404 SAE 40
Kinematic Viscosity @ 40°C	cSt	140	143
Kinematic Viscosity @ 100°C	cSt	14	14.3
Viscosity Index		96	96
Pour Point	°C	-6	-12
Flash Point (COC)	°C	230	246
TBN	mgKOH/g	30	40
Density @ 15°C	kg/L	0.91	0.911

TYPICAL VALUES

Values of current production from the published English TDS; the batch COA ships with every order. “—” means no value is published for that grade.

PRODUCT TECHNICAL PROFILE

MOTTA MC504 and MC507 cylinder oils.

Oli silinder MOTTA MC504 dan MC507

MOTTA MC504

Premium Marine Cylinder Oil TBN 40

SAE 50

MOTTA MC507

Ultra High Performance Marine Cylinder Oil TBN 70

SAE 50



PROPERTY	UNIT	MC504 SAE 50	MC507 SAE 50
Kinematic Viscosity @ 40°C	cSt	180	200
Kinematic Viscosity @ 100°C	cSt	17.9	20.18
Viscosity Index		94	98
Pour Point	°C	-9	-12
Flash Point (COC)	°C	255	251
TBN	mgKOH/g	40	70
Density @ 15°C	kg/L	0.89	0.91

TYPICAL VALUES

Values of current production from the published English TDS; the batch COA ships with every order. “—” means no value is published for that grade.

MARINE SYSTEM OILS

MS system oils.

Oli sistem Seri MS

Crankcase and circulating oils for crosshead engines and shipboard circulating systems. Low BN, with water separation that resists emulsification. MS800 is the higher-quality grade of MS600.

Untuk bak engkol mesin crosshead dan sistem sirkulasi di kapal: BN rendah, pemisahan air baik, tahan emulsi. MS800 adalah grade yang lebih tinggi dari MS600.

MOTTA MS630
MS600

System oil, paraffinic mineral base

SAE 30

Packs: 18L · 200L

MOTTA MS640
MS600

System oil, paraffinic mineral base

SAE 40

Packs: 18L · 200L

MOTTA MS830
MS800

Higher-quality system oil, premium mineral base

SAE 30

Packs: 18L · 200L

MOTTA MS840
MS800

Higher-quality system oil, premium mineral base

SAE 40

Packs: 18L · 200L



MOTTA 200L drum · 18L pail also available

System oil is not trunk-piston oil.

System oil lubricates the crankcase of a crosshead engine and carries a low BN; trunk-piston oil lubricates cylinders and crankcase together, so it carries a higher BN.

Oli sistem hanya melumasi bak engkol mesin crosshead sehingga BN-nya rendah; oli trunk piston melumasi silinder sekaligus bak engkol sehingga BN-nya lebih tinggi.

PRODUCT TECHNICAL PROFILE

MOTTA MS system oils.

Oli sistem MOTTA Seri MS

MS630

High Performance Marine System Oil
MS 630

SAE 30

MS640

High Performance Marine System Oil
MS 640

SAE 40

MS830

Ultra High Quality Marine System Oil
MS 830

SAE 30

MS840

Ultra High Quality Marine System Oil
MS 840

SAE 40



PROPERTY	UNIT	MS630 SAE 30	MS640 SAE 40	MS830 SAE 30	MS840 SAE 40
Kinematic Viscosity @ 40°C	cSt	100	130	100	140
Kinematic Viscosity @ 100°C	cSt	10.1	13.8	10.8	14.4
Viscosity Index		93	93	93	92
Pour Point	°C	-12	-12	-12	-12
Flash Point (COC)	°C	244	244	246	245
TBN	mgKOH/g	6	6	8	8
Density @ 15°C	kg/L	0.89	0.9	0.89	0.90

TYPICAL VALUES

Values of current production from the published English TDS; the batch COA ships with every order. “—” means no value is published for that grade.

CONTROL STARTS WHERE PRESSURE BUILDS.

Hydraulic, gear and compressor oils for deck machinery and the engine-room auxiliaries.

Di mana tekanan terbentuk, di situ kendali dimulai.

DECK & MACHINERY OILS

Hydraulic, gear and compressor oils.

Oli hidrolik, oli roda gigi, dan oli kompresor udara

Oils for winches, cranes, steering gear, reduction gearboxes and air compressors. Chosen for water separation and rust protection, because on a ship water always finds a way in.

Untuk winch, derek, mesin kemudi, gearbox reduksi, dan kompresor udara. Yang utama adalah pemisahan air dan perlindungan karat — di kapal, air selalu masuk ke oli.

MOTTA Y200

Oli hidrolik anti-aus

High-pressure anti-wear hydraulic oil, DIN 51524-2 (HM) performance

VG 10 / VG 22 / VG 32 / VG 46 / VG 68 / VG 100

Packs: 18L · 200L

MOTTA L500

Oli roda gigi industri

Extreme-pressure gear oil, DIN 51517-3 (CLP) performance

VG 68 / VG 100 / VG 150 / VG 220 / VG 320 / VG 460 / VG 680

Packs: 18L · 200L

MOTTA S600

Oli kompresor udara

Air compressor oil, ISO 6743-3 (DAA/DAB), reciprocating and rotary

VG 32 / VG 46 / VG 68 / VG 100 / VG 150

Packs: 18L · 200L



MOTTA 200L drum and Y200 18L pail

Milky oil means water. Act before it costs a pump.

Check the sight glass and drain water from the tank bottom. The series handbooks give the change points.

Oli berubah seperti susu berarti air masuk — segera kuras airnya; buku panduan tiap seri memuat nilai penilaian penggantian.

PRODUCT TECHNICAL PROFILE

MOTTA Y200 hydraulic oil.

Oli hidrolik anti-aus MOTTA Y200

MOTTA Y200

High Pressure Anti-Wear Hydraulic Oil

VG 10 / VG 22 / VG 32 / VG 46 / VG 68 / VG 100



PROPERTY	UNIT	VG 10	VG 22	VG 32	VG 46	VG 68	VG 100
Kinematic Viscosity @ 40°C	cSt	11	22	31.4	44.2	71.2	95.2
Kinematic Viscosity @ 100°C	cSt	2.6	4.5	5.4	6.6	8.5	10.8
Viscosity Index		98	98	98	98	98	98
Pour Point	°C	-30	-30	-27	-27	-21	-20
Flash Point (COC)	°C	173	200	220	232	235	248
Density @ 15°C	kg/L	0.844	0.861	0.87	0.875	0.882	0.887

TYPICAL VALUES

Values of current production from the published English TDS; the batch COA ships with every order. “—” means no value is published for that grade.

PRODUCT TECHNICAL PROFILE

MOTTA L500 gear oil.

Oli roda gigi industri MOTTA L500

MOTTA L500

Industrial Gear Oil

VG 68 / VG 100 / VG 150 / VG 220 / VG 320 / VG 460 / VG 680



PROPERTY	UNIT	VG 68	VG 100	VG 150	VG 220	VG 320	VG 460	VG 680
Kinematic Viscosity @ 40°C	cSt	68	100	150	220	320	460	680
Kinematic Viscosity @ 100°C	cSt	8.79	11.3	14.69	19.0	24	30.6	39.1
Viscosity Index		100	97	97	95	97	96	90
Pour Point	°C	-26	-25	-24	-18	-24	-15	-9
Flash Point (COC)	°C	230	230	230	240	240	240	284

TYPICAL VALUES

Values of current production from the published English TDS; the batch COA ships with every order. “—” means no value is published for that grade.

PRODUCT TECHNICAL PROFILE

MOTTA S600 compressor oil.

Oli kompresor udara MOTTA S600

MOTTA S600

Compressor Oil

VG 32 / VG 46 / VG 68 / VG 100 / VG 150



PROPERTY	UNIT	VG 32	VG 46	VG 68	VG 100	VG 150
Kinematic Viscosity @ 40°C	cSt	32	46	68	104	146
Kinematic Viscosity @ 100°C	cSt	5.38	6.87	8.86	11.57	14.65
Viscosity Index		105	105	105	100	100
Flash Point (COC)	°C	235	239	250	264	268
Density @ 15°C	kg/L	0.865	0.875	0.876	0.876	0.865

TYPICAL VALUES

Values of current production from the published English TDS; the batch COA ships with every order. “—” means no value is published for that grade.

TEMPERATURE CONTROL WITHOUT COMPROMISE.

Refrigeration and turbine oils, and grease for the fittings that face the weather.

Pengendalian suhu tidak bisa ditawar.



REFRIGERATION, TURBINE & GREASE

Refrigeration and turbine oils, and grease.

Oli refrigerasi, oli turbin, dan gemuk

Refrigeration oil is chosen by the refrigerant. Turbine oil by its oxidation stability. Grease by the load, the water and the consistency the fitting needs.

Oli refrigerasi dipilih menurut refrigeran, oli turbin menurut stabilitas oksidasi, gemuk menurut beban, air, dan konsistensi yang dibutuhkan titik pelumasan.

MOTTA RC300

Refrigerasi amonia

Naphthenic refrigeration oil for ammonia systems

VG 32 / VG 68

Packs: 18L · 200L

MOTTA RC500

HFC / CO2

Full synthetic refrigeration oil for HFC and CO2 systems

VG 15 / VG 22 / VG 32 / VG 46 / VG 68 / VG 100 / VG 220

Packs: 18L · 200L

MOTTA T50

Oli turbin

R&O turbine oil, DIN 51515-1 (L-TD) performance

VG 32 / VG 46 / VG 68 / VG 100

Packs: 18L · 200L

MOTTA EP

Gemuk lithium EP

Lithium EP grease, DIN 51825 (KP) performance, water-washout resistant

NLGI 000 / NLGI 00 / NLGI 0 / NLGI 1 / NLGI 2 / NLGI 3

Packs: 15kg · 170kg



MOTTA 200L drum · 18L pail also available

Refrigeration oil depends on the refrigerant.

Tell us the refrigerant and compressor model: RC300 for ammonia, RC500 for HFC and CO2.

Oli refrigerasi dipilih menurut refrigeran: RC300 untuk amonia, RC500 untuk HFC dan CO2.

PRODUCT TECHNICAL PROFILE

MOTTA RC refrigeration oils.

Oli kompresor refrigerasi MOTTA RC

MOTTA RC300

Premium Naphthenic Refrigeration Compressor Oil

VG 32 / VG 68

MOTTA RC500

Full Synthetic Refrigeration Compressor Oil

VG 15 / VG 22 / VG 32 / VG 46 / VG 68 / VG 100 / VG 220



PROPERTY	UNIT	RC300 VG 32	RC300 VG 68	RC500 VG 15	RC500 VG 22	RC500 VG 32	RC500 VG 46	RC500 VG 68	RC500 VG 100	RC500 VG 220
Kinematic Viscosity @ 40°C	cSt	32	68	15.8	23	34	49.2	68	105	226
Pour Point	°C	-40	-40	-60	-56	-47	-42	-35	-30	-21
Flash Point (COC)	°C	190	200	—	—	—	—	—	—	—
Specific Gravity @ 15/15°C		0.9	0.9	1.03	1	0.98	0.97	0.96	0.96	0.96
Floc Point	°C	-36	-30	—	—	—	—	—	—	—
Kinematic Viscosity @ 100°C	cSt	—	—	3.6	4.5	5.7	7.3	8.6	11.5	18.5

TYPICAL VALUES

Values of current production from the published English TDS; the batch COA ships with every order. “—” means no value is published for that grade.

PRODUCT TECHNICAL PROFILE

MOTTA T50 turbine oil.

Oli turbin MOTTA T50

MOTTA T50

Premium Turbine Oil

VG 32 / VG 46 / VG 68 / VG 100



PROPERTY	UNIT	VG 32	VG 46	VG 68	VG 100
Kinematic Viscosity @ 40°C	cSt	32	46	68	100
Kinematic Viscosity @ 100°C	cSt	5.5	6.7	8.5	10.6
Viscosity Index		100	100	95	94
Pour Point	°C	-30	-30	-30	-27
Flash Point (COC)	°C	222	217	220	242
Density @ 15°C	kg/L	0.86	0.87	0.87	0.88

TYPICAL VALUES

Values of current production from the published English TDS; the batch COA ships with every order. “—” means no value is published for that grade.

PRODUCT TECHNICAL PROFILE

MOTTA EP lithium grease.

Gemuk lithium EP MOTTA

MOTTA EP

General Purpose Lithium EP Grease

NLGI 000 / NLGI 00 / NLGI 0 / NLGI 1 / NLGI 2 / NLGI 3



PROPERTY	UNIT	NLGI 000	NLGI 00	NLGI 0	NLGI 1	NLGI 2	NLGI 3
Thickener Type		Lithium	Lithium	Lithium	Lithium	Lithium	Lithium
Colour / Appearance		Brown	Brown	Brown	Brown	Brown	Brown
Worked Penetration @ 25°C	0.1mm	456	415	368	322	265–295	234
Base Oil Viscosity @ 40°C	cSt	320	160	160	160	160	160

TYPICAL VALUES

Values of current production from the published English TDS; the batch COA ships with every order. “—” means no value is published for that grade.

QUALITY

Quality you can check for yourself.

Mutu yang bisa Anda periksa sendiri

We would rather you verify than take our word for it. Every point below is something you can check before, or on, your first order.

Daripada percaya ucapan kami, buktikan sendiri. Setiap poin di bawah bisa diperiksa sebelum memesan atau pada pesanan pertama.

BATCH COA WITH EVERY ORDER

Each shipment carries the certificate of analysis for its batch. Compare it with the published TDS.

COA untuk setiap batch, bisa dicocokkan dengan TDS

DOCUMENTS BEFORE YOU BUY

125 technical data sheets and 22 operation handbooks are public at motta-lube.com, no form to fill.

TDS dan buku panduan terbit sebelum pemesanan

SEE THE PRODUCTION

Visit the plant, or ask for a live video audit, before you commit to an order.

Kunjungan pabrik atau audit video sebelum memesan

TEST IT FIRST

Retail-pack samples free for your own lab. You pay the freight, or it is credited to your first order.

Sampel ritel gratis: uji sendiri sebelum memesan



Laboratory at our long-term manufacturing partner in China

ASK FOR THE SAMPLE, THE COA AND A VIDEO AUDIT.

Tell us the product and your port. We send the sample and the documents, and book the audit at a time that suits you.

Sebutkan produk dan pelabuhannya — kami kirim sampel, kirim dokumen, dan mengatur audit video.

DOCUMENTS & ORDERING

The paperwork a ship's records need, ready.

Dokumen yang dibutuhkan untuk catatan kapal

TECHNICAL DATA SHEET

An English TDS for every product, downloadable at motta-lube.com without a form.

[Lembar data teknis](#)

OPERATION HANDBOOK

Use, storage, oil-condition and change guidance for each marine series.

[Buku panduan operasional dan penanganan](#)

SAFETY DATA SHEET

The SDS comes with your quote, in the language your market needs.

[Lembar data keselamatan](#)

CERTIFICATE OF ANALYSIS

A batch COA ships with every order.

[COA per batch](#)

CHANGING BRAND OR BN?

Tell us the oil in the engine today and the fuel you burn. We check the change-over and tell you how to manage it.

Sebutkan oli dan bahan bakar yang dipakai sekarang; kami periksa cara pengantiannya dan memandu proses peralihan.

HOW TO ORDER

1

Send the engine and the fuel

Builder, model, fuel sulphur, and the oil in use today.

2

Get the grade and a price

Answered within 24 hours, weekends included.

3

Test the free sample

Pay the freight, or have it credited to your first order.

4

Ship in 15–25 working days

T/T: 30% deposit, balance before shipment. FOB Xiamen; CFR and CIF quoted.

TELL US THE ENGINE. WE MATCH THE OIL.

Engine model, fuel, oil in use and volume. You get the grade, the data sheet, the handbook and a price within 24 hours.

Model mesin, bahan bakar, oli yang dipakai, dan volume — grade, TDS, dan harga dalam 24 jam

PORT AND SHORE EQUIPMENT?

Oils for port cranes, trucks and construction machines are in the MOTTA Heavy-Duty Guide.

EXPORT TEAM

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