

BUILT FOR HEAVY WORK.

Heavy-Duty & Off-Highway Lubricants

Diesel engine oil, powershift fluid, gear oil, hydraulic oil, grease and coolant for trucks, construction and mining equipment.

Dibuat untuk beban berat

Truk, alat konstruksi, dan alat tambang — semua oli untuk satu mesin

WHY MOTTA

One supplier for the whole machine.

Semua oli untuk satu mesin dari satu pemasok

MOTTA supplies heavy-duty lubricants for export and runs private-label programmes for distributors, fleets and equipment dealers. 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 alat berat untuk pasar ekspor dan menjalankan program label pribadi bagi distributor, armada, dan dealer alat berat. 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

Diesel engine oil · Powershift fluid · Gear oil

Hydraulic oil · Grease · Coolant

Oli mesin diesel · cairan powershift · oli roda gigi · oli hidrolik · gemuk · cairan pendingin

15–25

working days to ship

2011

exporting since

EN TDS

for every product

Pengiriman 15–25 hari kerja · ekspor sejak 2011 · 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

CONTAINER PROGRAMMES

Products mixed in one container; trial quantities considered.

Program kontainer

FREE LABEL DESIGN

Your brand on 4L, 18L and 200L packs, designed by us.

Desain label gratis

24-HOUR REPLY

A real person answers every enquiry, weekends included.

Dijawab dalam 24 jam



Blending at our long-term manufacturing partner in China

APPLICATION MAP

One machine. Six places that take a lubricant.

Satu alat berat, enam titik yang perlu dilumasi

WHERE ON THE MACHINE	WHAT THE MANUAL USUALLY SAYS	MOTTA PRODUCT	PACKS
Engine Mesin	API CK-4, CI-4, CH-4 or CF-4 SAE 15W-40 is the common grade	LIKING heavy-duty diesel oil CF-4 to CK-4, 5W-30 to 20W-50	4L · 18L · 200L
Hydraulics Sistem hidrolik	Anti-wear hydraulic oil, HM ISO VG 46 or 68	Y Series anti-wear hydraulic oil ISO VG 10–150, incl. high-pressure and low-zinc	18L · 200L
Powershift transmission, final drive, wet brakes Transmisi powershift, final drive, rem basah	Caterpillar TO-4 SAE 10 / 30 / 50	TO-4 Series With its own handbook, including wet-brake cautions	18L · 200L
Axles and gearboxes Gardan dan gearbox	API GL-5 75W-90 to 85W-140	GL-5 heavy-duty gear oil	4L · 18L · 200L
Pins, bushes, bearings Pin, bushing, bantalan	NLGI 2 lithium EP grease	EP grease NLGI 000 to 3; synthetic grades for hot work	15KG · 170KG
Cooling system Sistem pendingin	Organic acid (OAT) long-life coolant	OAT coolant Freeze protection –25 / –35 / –45 °C	5KG · 18KG · 200KG

SEND THE MACHINE MODEL. WE MATCH THE OIL.

The equipment maker's manual governs. Send a photo of the manual page: grade, viscosity and pack come back.

Buku manual mesin menjadi acuan — kirim foto halamannya, kami sebutkan grade, viskositas, dan kemasan.

EVERY SHIFT STARTS IN THE ENGINE.

LIKING diesel engine oils for trucks, excavators, loaders and haul trucks.

Setiap shift dimulai dari mesin.

DIESEL ENGINE OILS

LIKING heavy-duty diesel engine oils.

Oli mesin diesel tugas berat LIKING

Four API performance levels in one range: CF-4 for older and mixed fleets up to CK-4 for the newest engines. Every grade has its own English technical data sheet.

Satu rangkaian, empat tingkat API: dari CF-4 untuk armada lama dan campuran hingga CK-4 untuk mesin terbaru. Setiap tingkat punya TDS bahasa Inggris sendiri.

LIKING CK-4

Mesin terbaru

Newest heavy-duty engines and extended service

SAE 5W-30 / SAE 10W-40 / SAE 15W-40

Packs: 4L · 18L · 200L

LIKING CI-4

Mesin era EGR

EGR-era heavy-duty engines

SAE 15W-40 / SAE 20W-50

Packs: 4L · 18L · 200L

LIKING CH-4

Mesin lama bertenaga besar

Older high-output diesel engines

SAE 15W-40 / SAE 20W-50

Packs: 4L · 18L · 200L

LIKING CF-4

Armada lama dan campuran

Older fleets and mixed fleets

SAE 15W-40 / SAE 20W-50

Packs: 4L · 18L · 200L



MOTTA LIKING CK-4 15W-40 · 18L

CK-4 covers most engines that called for CJ-4 or CI-4.

Newer API diesel categories are backward compatible in most engines. The equipment maker's manual governs.

CK-4 umumnya mencakup mesin yang meminta CJ-4 atau CI-4; buku manual mesin menjadi acuan.

PRODUCT TECHNICAL PROFILE

LIKING CK-4 diesel engine oils.

Oli mesin diesel LIKING CK-4

MOTTA LIKING CK-4

API CK-4 Performance-Level Heavy-Duty Diesel Engine Oil

SAE 5W-30

MOTTA LIKING CK-4

API CK-4 Performance-Level Heavy-Duty Diesel Engine Oil

SAE 10W-40

MOTTA LIKING CK-4

API CK-4 Performance-Level Heavy-Duty Diesel Engine Oil

SAE 15W-40



PROPERTY	UNIT	SAE 5W-30	SAE 10W-40	SAE 15W-40
Kinematic Viscosity @ 40°C	cSt	65	95	113
Kinematic Viscosity @ 100°C	cSt	11.2	14.0	15.0
Viscosity Index		165	153	140
Flash Point (COC)	°C	220	226	228
Pour Point	°C	-39	-33	-27
TBN	mgKOH/g	10.0	10.2	10.4
HTHS Viscosity @ 150°C	mPa·s	3.5	3.8	4.3
Cold Crank Viscosity @ -20°C	mPa·s	—	—	3500

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

LIKING CI-4 and CH-4 diesel engine oils.

Oli mesin diesel LIKING CI-4 dan CH-4

MOTTA LIKING CI-4

API CI-4 Performance-Level Heavy-Duty Diesel Engine Oil

SAE 15W-40 / SAE 20W-50

MOTTA LIKING CH-4

API CH-4 Performance-Level Heavy-Duty Diesel Engine Oil

SAE 15W-40

MOTTA LIKING CH-4

API CH-4 Performance-Level Heavy-Duty Diesel Engine Oil

SAE 20W-50



PROPERTY	UNIT	CI-4 SAE 15W-40	CI-4 SAE 20W-50	CH-4 SAE 15W-40	CH-4 SAE 20W-50
Kinematic Viscosity @ 40°C	cSt	112	165	112	165
Kinematic Viscosity @ 100°C	cSt	14.8	19.2	14.8	19.2
Viscosity Index		135	135	135	138
Flash Point (COC)	°C	230	236	230	238
Pour Point	°C	-30	-24	-27	-24
TBN	mgKOH/g	10.0	10.0	10.0	10.0
Density @ 15°C	kg/L	0.876	0.882	0.876	0.882
HTHS Viscosity @ 150°C	mPa·s	—	—	—	4.9

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

LIKING CF-4 diesel engine oils.

Oli mesin diesel LIKING CF-4

MOTTA LIKING CF-4

API CF-4 Performance-Level Diesel Engine Oil

SAE 15W-40

MOTTA LIKING CF-4

API CF-4 Performance-Level Diesel Engine Oil

SAE 20W-50



PROPERTY	UNIT	SAE 15W-40	SAE 20W-50
Kinematic Viscosity @ 40°C	cSt	112	168
Kinematic Viscosity @ 100°C	cSt	14.8	19.5
Viscosity Index		130	130
Flash Point (COC)	°C	230	240
Pour Point	°C	-27	-24
TBN	mgKOH/g	8.5	8.5
Density @ 15°C	kg/L	0.876	0.882
HTHS Viscosity @ 150°C	mPa·s	—	4.9

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.

POWER HAS TO REACH THE GROUND.

TO-4 fluids for powershift transmissions, final drives and wet brakes.

Tenaga harus sampai ke tanah.

POWERSHIFT TRANSMISSION FLUIDS

TO-4 powershift transmission fluid.

Cairan transmisi powershift TO-4

For powershift transmissions, final drives and wet brakes in loaders, dozers and haul trucks. Formulated to Caterpillar TO-4 performance, with the controlled friction wet clutches and brakes need.

Untuk transmisi powershift, final drive, dan rem basah pada loader, bulldoser, dan truk tambang. Diformulasikan ke arah kinerja Caterpillar TO-4 dengan karakter gesekan yang dibutuhkan kopling dan rem basah.

TO-4 SAE 10

SAE 10

Powershift transmissions and hydraulic systems where SAE 10 is specified

SAE 10

Packs: 18L · 200L

TO-4 SAE 30

SAE 30

Powershift transmissions and wet brakes where SAE 30 is specified

SAE 30

Packs: 18L · 200L

TO-4 SAE 50

SAE 50

Final drives and axles where SAE 50 is specified

SAE 50

Packs: 18L · 200L

Operation handbook **Buku panduan operasional**

Wet-brake cautions, change intervals and oil-condition checks

English and Chinese

Packs: PDF



MOTTA 200L drum · 18L pail also available

Not engine oil, not hydraulic oil.

In powershift transmissions and wet brakes, the wrong oil commonly causes brake chatter and clutch slip.

Transmisi powershift dan rem basah tidak boleh memakai oli mesin atau oli hidrolik.

PRODUCT TECHNICAL PROFILE

TO-4 Series typical data.

Nilai tipikal Seri TO-4

MOTTA TO-4 Series

Powershift Transmission Fluid

SAE 10 / SAE 30 / SAE 50



PROPERTY	UNIT	SAE 10	SAE 30	SAE 50
Kinematic Viscosity @ 100°C	cSt	6.3	11.2	18.5
Kinematic Viscosity @ 40°C	cSt	35	100	205
Viscosity Index		105	100	98
Flash Point (COC)	°C	220	230	240
Pour Point	°C	-30	-24	-18
Density @ 15°C	kg/m³	875	890	905
Copper Corrosion, 3 h @ 100°C	rating	1b	1b	1b

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.

THE LOAD ENDS AT THE AXLE.

GL-5 gear oils for axles, differentials and final drives.

Semua bobot akhirnya bertumpu pada gardan.

GEAR OILS

GL-5 gear oils for axles and final drives.

Oli roda gigi GL-5 untuk kendaraan dan tugas berat

Hypoid axles, differentials and final drives on trucks, dump trucks and off-highway equipment that call for API GL-5.

Gardan hipoid, diferensial, dan final drive truk, dump truck, serta alat off-highway yang memerlukan API GL-5.

MOTTA GL-5 Series

Oli roda gigi otomotif

Automotive gear oil for hypoid axles and gear units

SAE 75W-90 / 80W-90 / 85W-140

Packs: 4L · 18L · 200L

MOTTA LHD GL-5 Series

Oli roda gigi tugas berat

Heavy-duty gear oil for truck and off-highway axles

SAE 80W-90 / 85W-140

Packs: 4L · 18L · 200L



MOTTA GL-5 85W-140 · 18L

GL-5 is for hypoid axles.

Where a manual gearbox calls for GL-4, follow the manual.

Jika transmisi manual menetapkan GL-4, buku manual menjadi acuan.

PRODUCT TECHNICAL PROFILE

GL-5 gear oils typical data.

Nilai tipikal oli GL-5

MOTTA GL-5 Series

Automotive Gear Oil

SAE 75W-90 / 80W-90 / 85W-140

MOTTA LHD GL-5 Series

Heavy Duty Gear Oil

SAE 80W-90 / 85W-140



PROPERTY	UNIT	GL-5 SAE 75W-90	GL-5 SAE 80W-90	GL-5 SAE 85W-140	LHD GL-5 SAE 80W-90	LHD GL-5 SAE 85W-140
Kinematic Viscosity @ 100°C	cSt	—	15.0	27.5	15.2	28.0
Kinematic Viscosity @ 40°C	cSt	—	145	410	150	420
Viscosity Index		—	100	95	100	95
Flash Point (COC)	°C	—	220	230	222	232
Pour Point	°C	—	-27	-18	-27	-18
Density @ 15°C	kg/m³	—	900	910	902	912
Copper Corrosion, 3 h @ 100°C	rating	—	1b	1b	1b	1b
FZG Scuffing Load Stage	stage	—	12	12	12	12

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.

Y Series hydraulic oils for booms, arms, buckets and steering.

Di mana tekanan terbentuk, di situ kendali dimulai.

HYDRAULIC OILS

Y Series anti-wear hydraulic oils.

Oli hidrolik anti-aus Seri Y

Excavator, loader and crusher hydraulics. All four grades are formulated to DIN 51524 Part 2 (HM) performance; choose by pressure, zinc limit and climate.

Sistem hidrolik ekskavator, loader, dan crusher. Empat grade sesuai persyaratan DIN 51524-2 (HM); pilih menurut tekanan, batas kandungan seng, dan iklim.

MOTTA Y100

Anti-aus standar

Anti-wear HM for general hydraulics

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

Packs: 18L · 200L

MOTTA Y200

Anti-aus tekanan tinggi

High-pressure pumps and excavator main circuits

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

Packs: 18L · 200L

MOTTA Y300

Rendah seng

Low zinc (≤ 500 ppm) where the OEM limits zinc

VG 15 / VG 22 / VG 32 / VG 46 / VG 68 / VG 100 / VG 150

Packs: 18L · 200L

MOTTA Y400

Full sintetis

Full synthetic PAO, VI above 150, cold starts

VG 32 / VG 46 / VG 68 / VG 100

Packs: 18L · 200L



MOTTA Y200 · 18L

ISO VG 46 is the common grade in mobile equipment.

VG 32 for cold climates, VG 68 for hot climates and heavy duty. The OEM manual governs.

Alat bergerak umumnya VG 46; daerah dingin VG 32, panas dan beban berat VG 68.

PRODUCT TECHNICAL PROFILE

MOTTA Y100 hydraulic oil.

Oli hidrolik MOTTA Y100

MOTTA Y100

Anti-Wear Hydraulic 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	100	150
Kinematic Viscosity @ 100°C	cSt	5.5	6.8	8.4	11.1	14.5
Viscosity Index		103	100	106	95	95
Pour Point	°C	-24	-24	-18	-18	-17
Flash Point (COC)	°C	212	230	234	243	258

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 Y200 hydraulic oil.

Oli hidrolik 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 Y300 hydraulic oil.

Oli hidrolik MOTTA Y300

MOTTA Y300

Low Zinc Hydraulic Oil

VG 15 / VG 22 / VG 32 / VG 46 / VG 68 / VG 100 / VG 150



PROPERTY	UNIT	VG 15	VG 22	VG 32	VG 46	VG 68	VG 100	VG 150
Kinematic Viscosity @ 40°C	cSt	15.6	22.4	32.8	45.6	68.3	99.8	155.6
Kinematic Viscosity @ 100°C	cSt	4.08	5.07	6.64	8.45	11.17	13	17.15
Viscosity Index		168	164	164	164	156	127	120
Pour Point	°C	-54	-53	-53	-45	-39	-33	-30
Flash Point (COC)	°C	180	223	250	232	239	258	257
Density @ 15°C	kg/L	0.837	0.842	0.845	0.85	0.862	0.877	0.882

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 Y400 hydraulic oil.

Oli hidrolik MOTTA Y400

MOTTA Y400

Full Synthetic Hydraulic 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	6.3	8.2	11.51	15.94
Viscosity Index		145	155	158	160
Pour Point	°C	-56	-51	-53	-52
Flash Point (COC)	°C	233	234	241	243

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.

PROTECTION THAT STAYS IN PLACE.

Greases for pins, bushes and bearings under load, water and dirt.

Menempel kuat, melindungi terus.

GREASES

Greases for pins, bushes and bearings.

Gemuk untuk pin, bushing, dan bantalan

From everyday EP lithium grease for pins and bushes to synthetic complex greases for heavy load, heat and contamination. 15KG pails and 170KG drums.

Dari gemuk lithium EP harian untuk pin dan bushing hingga gemuk kompleks sintetis untuk beban berat, suhu tinggi, dan lingkungan kotor. Pail 15KG dan drum 170KG.

MOTTA EP

Gemuk lithium EP

Lithium EP grease, DIN 51825 KP

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

Packs: 15KG · 170KG

MOTTA EP NLGI 2

Gemuk serbaguna

Pins, bushes and bearings, DIN 51825 KP2K

NLGI 2

Packs: 15KG · 170KG

MOTTA SG Series

Gemuk kompleks sintetis

Synthetic PAO complex grease: heavy load, water, dirt

NLGI 1 / NLGI 2 / NLGI 3 · +7 grades

Packs: 15KG · 170KG

MOTTA GT Series

Gemuk sintetis suhu tinggi

High-temperature synthetic grease, sustained service above 120 °C

NLGI 1 / NLGI 2 · +3 grades

Packs: 15KG · 170KG



MOTTA EP NLGI 2 · 15KG

Purge the old grease when you change type.

Lithium and lithium-complex usually mix; other thickeners may not, and a bad mix softens and runs out.

Saat mengganti jenis gemuk, buang dulu gemuk lama sampai bersih.

PRODUCT TECHNICAL PROFILE

MOTTA EP lithium greases.

Gemuk lithium EP MOTTA

MOTTA EP

General Purpose Lithium EP Grease

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

MOTTA EP

EP Lithium Grease

NLGI 2



PROPERTY	UNIT	NLGI 000	NLGI 00	NLGI 0	NLGI 1	NLGI 2	NLGI 3	EP NLGI 2
Thickener Type		Lithium	Lithium	Lithium	Lithium	Lithium	Lithium	Lithium
Colour / Appearance		Brown	Brown	Brown	Brown	Brown	Brown	Brown
Worked Penetration @ 25°C	0.1mm	456	415	368	322	265–295	234	265–295
Base Oil Viscosity @ 40°C	cSt	320	160	160	160	160	160	160
Penetration (worked, 60 str)	0.1mm	—	—	—	—	—	—	265–295
Drop Point	°C	—	—	—	—	—	—	>200
4-Ball Weld Load	N	—	—	—	—	—	—	≥2500
Water Wash-out @ 79°C	% wt	—	—	—	—	—	—	≤10

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 SG synthetic greases.

Gemuk sintetis MOTTA SG

MOTTA SG Series

High Performance Synthetic Grease

NLGI 1 / NLGI 2 / NLGI 3

MOTTA SG100

Synthetic Lithium Complex Grease SG100

NLGI 2

MOTTA SG220

Synthetic Lithium Complex Grease SG220

NLGI 2

MOTTA SG221

Synthetic Lithium Complex Grease SG221

NLGI 1

PROPERTY	UNIT	SG NLGI 1	SG NLGI 2	SG NLGI 3	SG100 NLGI 2	SG220 NLGI 2	SG221 NLGI 1
Worked Penetration	0.1 mm	310–340	265–295	220–250	—	—	—
Dropping Point	°C	260	260	260	262	265	265
Four-Ball Wear Scar	mm	0.50	0.48	0.46	—	—	—
Water Washout @ 79°C	%	5	5	4	—	—	—
Copper Corrosion	rating	1b	1b	1b	—	—	—
Rust Prevention		Pass	Pass	Pass	—	—	—
Thickener Type		—	—	—	Lithium Complex (synthetic base)	Lithium Complex (synthetic base)	Lithium Complex (synthetic base)
Colour / Appearance		—	—	—	Red	Red	Light amber

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 SG synthetic greases (continued).

Gemuk sintetis MOTTA SG (lanjutan)

MOTTA SG460
Synthetic Lithium Complex Grease SG460

NLGI 1.5

MOTTA SG460S
Synthetic Lithium Complex Grease SG460S

NLGI 00

MOTTA SG1000
Synthetic Lithium Complex Grease SG1000

NLGI 2

MOTTA SG1500
Synthetic Lithium Complex Grease SG1500

NLGI 1.5

PROPERTY	UNIT	SG460 NLGI 1.5	SG460S NLGI 00	SG1000 NLGI 2	SG1500 NLGI 1.5
Thickener Type		Lithium Complex (synthetic base)	Lithium Complex (synthetic base)	Lithium Complex (synthetic base)	Lithium Complex (synthetic base)
Colour / Appearance		Red	Red	Grey-black	Red
Worked Penetration @ 25°C	0.1mm	300	410	283	300
Dropping Point	°C	265	—	265	265
Base Oil Viscosity @ 40°C	cSt	460	460	1000	1500

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 GT high-temperature greases.

Gemuk suhu tinggi MOTTA GT

MOTTA GT Series

High Temperature Synthetic Grease

NLGI 1 / NLGI 2

MOTTA GT15

High-Temperature Synthetic Grease

NLGI 1.5

MOTTA GT20

High-Temperature Synthetic Grease

NLGI 2

MOTTA GT100S

High-Temperature Synthetic Grease

NLGI 1

PROPERTY	UNIT	GT NLGI 1	GT NLGI 2	GT15 NLGI 1.5	GT20 NLGI 2	GT100S NLGI 1
Worked Penetration	0.1 mm	310–340	265–295	—	—	—
Dropping Point	°C	280	280	260	260	260
Four-Ball Wear Scar	mm	0.50	0.48	—	—	—
Water Washout @ 79°C	%	6	5	—	—	—
Copper Corrosion	rating	1b	1b	—	—	—
Rust Prevention		Pass	Pass	—	—	—
Thickener Type		—	—	Clay (PAO base)	Clay (PAO base)	Clay (PAO base)
Colour / Appearance		—	—	Red	Light brown	Grey

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.

KEEP THE HEAT UNDER CONTROL.

OAT long-life coolant for heavy-duty engines.

Menjaga panas dalam batasnya.

COOLANTS

OAT long-life coolant.

Cairan pendingin OAT berumur panjang

Organic acid technology coolant for trucks, construction equipment and industrial engines, with year-round corrosion protection. Referenced to ASTM D3306 / D6210.

Cairan pendingin OAT berumur panjang untuk truk, alat berat, dan mesin industri, perlindungan korosi sepanjang tahun; acuan ASTM D3306 / D6210.

OAT -25 °C

Daerah panas

Warm and tropical climates

Freeze protection -25 °C

Packs: 1.5KG · 5KG · 18KG · 200KG

OAT -35 °C

Daerah beriklim sedang

Temperate climates

Freeze protection -35 °C

Packs: 1.5KG · 5KG · 18KG · 200KG

OAT -45 °C

Daerah dingin

Cold climates and winter operation

Freeze protection -45 °C

Packs: 1.5KG · 5KG · 18KG · 200KG

Operation handbook Buku panduan operasional

Filling, top-up, concentration checks and change intervals

English and Chinese

Packs: PDF



MOTTA OAT -45 °C · 18kg

Changing coolant type? Flush first.

Do not top up a silicate or hybrid coolant with OAT. Drain, flush, then fill, as the vehicle maker specifies.

Mengganti jenis cairan pendingin harus dikuras dan dibilas, jangan dicampur.

PRODUCT TECHNICAL PROFILE

OAT coolant typical data.

Nilai tipikal cairan pendingin OAT

MOTTA OAT Series

Organic Acid Technology Coolant

-25°C / -35°C / -45°C



PROPERTY	UNIT	-25°C	-45°C
Appearance		Clear coloured liquid	Clear coloured liquid
Freezing Point	°C	-25	-45
Density @ 20°C	g/cm³	1.050	1.075
pH	50% v/v	8.3	8.4
Boiling Point	°C	108	112
Glycol Content	% wt	38	55

TYPICAL VALUES

Values of current production from the published English TDS; the batch COA ships with every order. -35°C: typical values sent with your quote.

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

Everything a buyer asks for, ready.

Semua dokumen yang dibutuhkan bagian pembelian

TECHNICAL DATA SHEET

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

Lembar data teknis

OPERATION HANDBOOK

Use, storage and oil-change guidance for each series, in English and Chinese.

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

PACKS BY PRODUCT

Diesel engine oil and gear oil: 4L · 18L · 200L Hydraulic oil and TO-4: 18L · 200L

Grease: 15KG · 170KG Coolant: 1.5KG · 5KG · 18KG · 200KG

Oli mesin dan roda gigi 4L · 18L · 200L; hidrolis dan TO-4 18L · 200L; gemuk 15KG · 170KG

HOW TO ORDER

1

Send the machine or the spec

Model, manual photo, or the oil you use today.

2

Get the grade and a price

Answered within 24 hours, weekends included.

3

Approve the sample and label

Retail-pack samples free. Free label design for your brand.

4

Ship in 15–25 working days

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

TELL US THE MACHINE. WE DO THE REST.

Machine model, a photo of the manual, rough volume and destination port. You get the grade, the data sheet and a price within 24 hours.

Model mesin, foto buku manual, perkiraan volume, pelabuhan tujuan — grade, TDS, dan harga dalam 24 jam

EXPORT TEAM

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