



# CASTROL HEAVY DUTY PRODUCT RANGE

IT'S MORE THAN JUST OIL. IT'S LIQUID ENGINEERING.™



## MEETING THE NEEDS OF THE HEAVY DUTY INDUSTRY

The lubrication needs of the Heavy Duty industry are complex as they involve a vast number of different vehicle types that carry out hundreds of types of applications across a wide range of conditions. From Mining to Construction to Fleets, Castrol offers a solution for almost every application.

Our commercial vehicle product range has been developed to overcome the challenges of the Heavy Duty industry. We offer solutions that can help you drive operational efficiency and keep your equipment in service, by delivering more value for longer.

Castrol's full range of advanced engine oils, transmission fluids, coolants and greases can help you maximise your efficiency, make it easier for you to use the right product for the right application and eventually, can help you achieve the best possible performance from your vehicles.

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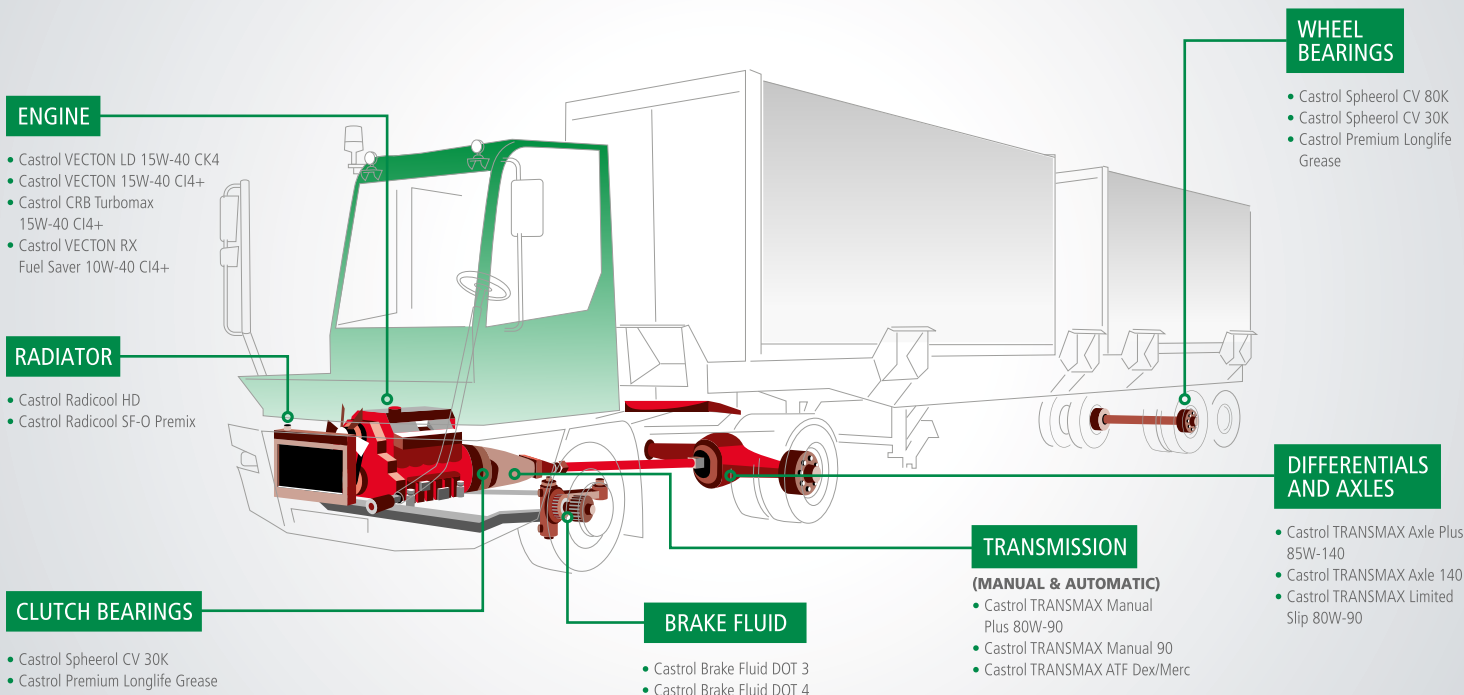
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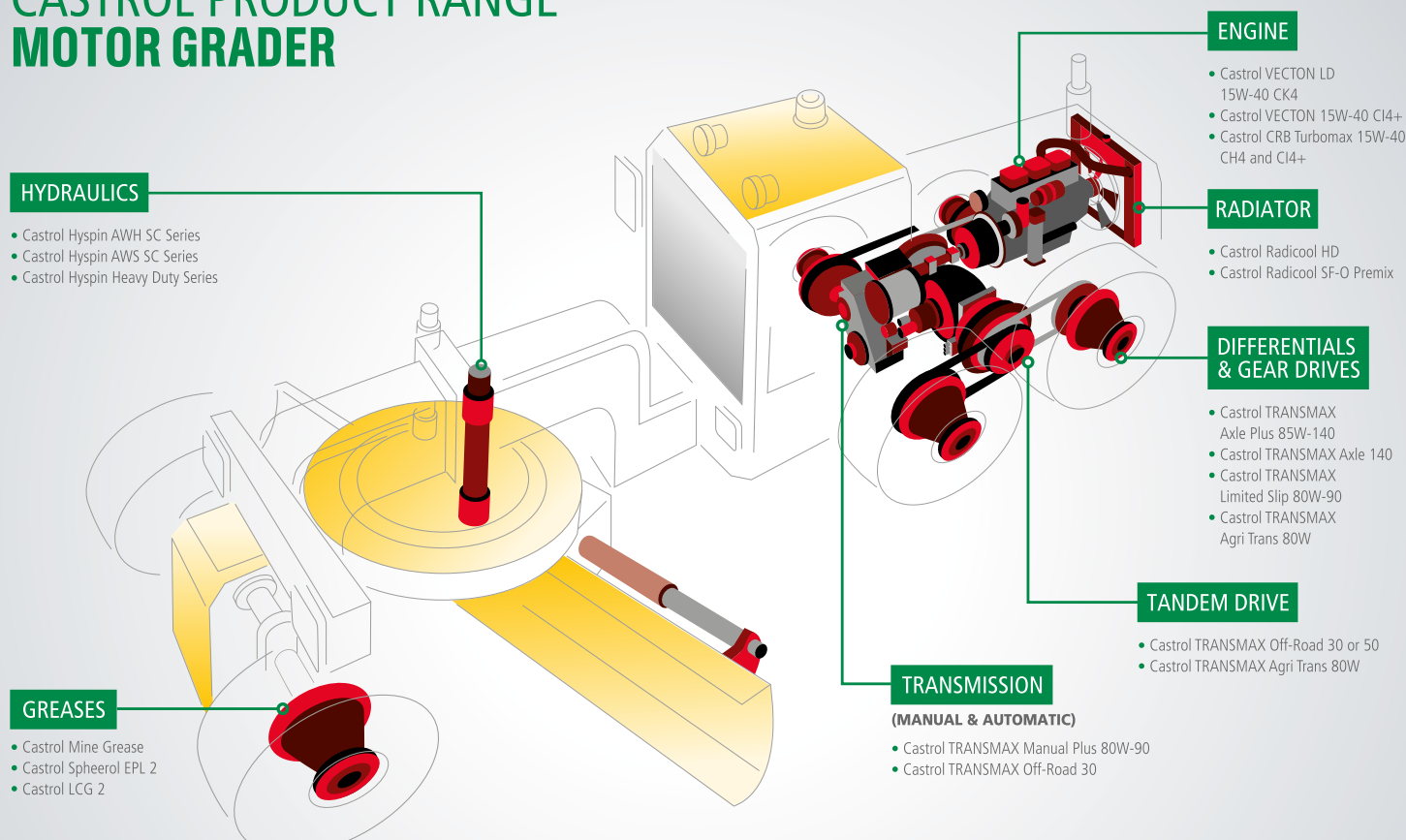
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# CASTROL PRODUCT RANGE TERMINAL TRACTOR



The product recommendations made on this sheet are appropriate in many makes and models within this equipment type. However, please be sure to consult the OEM manual to ensure that the recommended Castrol product meets the OEM lubricant recommendations and / or specification for each particular component.

# CASTROL PRODUCT RANGE MOTOR GRADER



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# CASTROL PRODUCT RANGE MINING TIPPER



## ENGINE

- Castrol VECTON LD 15W-40 CK4
- Castrol VECTON 15W-40 CI4+
- Castrol CRB Turbomax 15W-40 CH4 and CI4+

## RADIATOR

- Castrol Radicool HD
- Castrol Radicool SF-O Premix

## TRANSMISSION

### (MANUAL & AUTOMATIC)

- Castrol TRANSMAX Manual Plus 80W-90
- Castrol TRANSMAX Manual 90
- Castrol TRANSMAX ATF Dex/Merc

## HYDRAULICS

- Castrol Hyspin AWH SC Series
- Castrol Hyspin AWS SC Series
- Castrol Hyspin Heavy Duty Series

## DIFFERENTIALS, AXLES & FINAL DRIVES

- Castrol TRANSMAX Axle Plus 85W-140
- Castrol TRANSMAX Axle 140
- Castrol TRANSMAX Limited Slip 80W-90

## GREASES

- Castrol Mine Grease
- Castrol Sphero EPL 2
- Castrol LCG 2

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# CASTROL PRODUCT RANGE HYDRAULIC EXCAVATOR

## ENGINE

- Castrol VECTON LD 15W-40 CK4
- Castrol VECTON 15W-40 CI4+
- Castrol CRB Turbomax 15W-40 CH4 and CI4+

## POWER TAKE-OFF (PTO)

### (FINAL DRIVES, FRONT AND REAR AXLE)

- Castrol TRANSMAX Off-Road 30

## DIFFERENTIALS & GEAR DRIVES

- Castrol TRANSMAX Off-Road 30 and 50
- Castrol TRANSMAX Manual Plus 80W-90
- Castrol TRANSMAX Manual 90

## RADIATOR

- Castrol Radicool HD
- Castrol Radicool SF-O Premix

## HYDRAULICS

- Castrol Hyspin AWH SC Series
- Castrol Hyspin AWS SC Series
- Castrol Hyspin Heavy Duty Series

## BUSH-PIN

- Castrol Mine Grease
- Castrol LCG2
- Castrol Sphero EPL2

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# CASTROL PRODUCT RANGE MINING DUMP TRUCK



## HYDRAULICS

- Castrol Hyspin AWH SC Series
- Castrol Hyspin AWS SC Series
- Castrol Hyspin Heavy Duty Series

## ENGINE

- Castrol VECTON LD 15W-40 CK4
- Castrol VECTON 15W-40 C14+
- Castrol CRB Turbomax 15W-40 CH4 and C14+

## RADIATOR

- Castrol Radicool HD
- Castrol Radicool SF-O Premix

## DIFFERENTIALS & AXLES

- Castrol TRANSMAX Off-Road 50
- Castrol TRANSMAX Axle Plus 85W-140

## TRANSMISSION

- Castrol TRANSMAX Off-Road 30

## BUSH-PIN

- Castrol Mine Grease
- Castrol LCG2
- Castrol Spheerol EPL2

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# CASTROL PRODUCT RANGE CONE CRUSHER

## ENGINE

- Castrol VECTON LD 15W-40 CK4
- Castrol VECTON 15W-40 C14+
- Castrol CRB Turbomax 15W-40 CH4 AND C14+

## HYDRAULICS

- Castrol Hyspin AWH SC Series
- Castrol Hyspin AWS SC Series
- Castrol Hyspin Heavy Duty Series

## RADIATOR

- Castrol Radicool HD
- Castrol Radicool SF-O Premix

## CONE SPIDER BEARING

- Castrol Tribol GR 4020/460-2 PD
- Castrol Molub Alloy 860/460-2 PD
- Castrol Tribol GR 3020/1000-00 PD
- Castrol Tribol GR 100 PD Range

## FEEDER GEARBOX

- Castrol Alpha SP 220
- Castrol Optigear MX 220
- Castrol Optigear BM 220
- Castrol Optigear Synthetic X 220

## CONE LUBRICATING OIL

- (MANUAL & AUTOMATIC)
- Castrol Alpha SP 150 or 220
  - Castrol Optigear MX 150 or 220
  - Castrol Optigear BM 150 or 220
  - Castrol Optigear Synthetic X 150 or 220

## GENERAL LUBRICATION GREASE (TT & OTHERS)

- Castrol Spheerol EPL2
- Castrol LCG2

## TRACK GEAR BOX

- Castrol TRANSMAX Manual Plus 80W-90
- Castrol TRANSMAX Manual 90

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# CASTROL PRODUCT RANGE BULLDOZER



## TRANSMISSION

(MANUAL & AUTOMATIC)

- Castrol TRANSMAX Manual Plus 80W-90
- Castrol TRANSMAX Manual 90
- Castrol TRANSMAX Off-Road 30

## DIFFERENTIALS, AXLES & FINAL DRIVES

- Castrol TRANSMAX Axle Plus 85W-140
- Castrol TRANSMAX Axle 140
- Castrol TRANSMAX Off-Road 50

## GREASES

- Castrol Spheroel EPL 2
- Castrol LCG 2
- Castrol Mine Grease

## HYDRAULICS

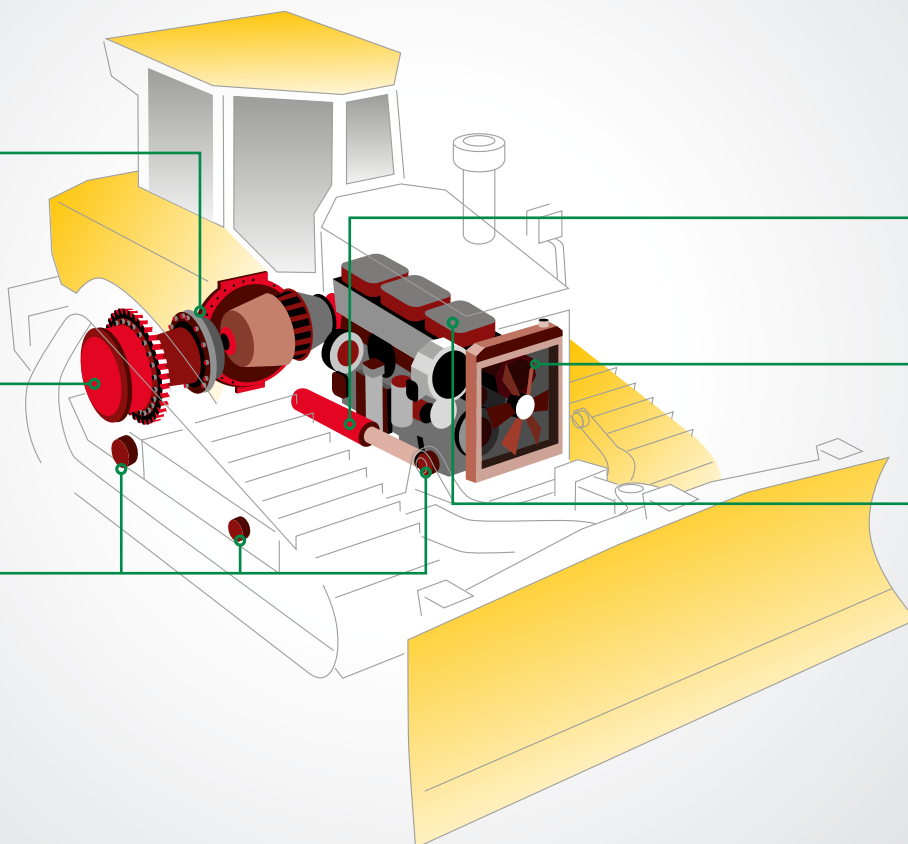
- Castrol Hyspin AWH SC Series
- Castrol Hyspin AWS SC Series
- Castrol Hyspin Heavy Duty Series

## RADIATOR

- Castrol Radicool HD
- Castrol Radicool SF-O Premix

## ENGINE

- Castrol VECTON LD 15W-40 CK4
- Castrol VECTON 15W-40 CI4+
- Castrol CRB Turbomax 15W-40 CH4 and CI4+



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# CASTROL PRODUCT RANGE BACKHOE LOADER

## GREASES

- Castrol Spheroel EPL 2
- Castrol LCG 2
- Castrol Mine Grease

## TRANSMISSION

(MANUAL & AUTOMATIC)

- Castrol TRANSMAX Manual Plus 80W-90
- Castrol TRANSMAX Off-Road 30
- Castrol TRANSMAX Agri TRANS 80W
- Castrol TRANSMAX ATF Dex/Merc

## DIFFERENTIALS & AXLES

- Castrol TRANSMAX Axle Plus 85W-140
- Castrol TRANSMAX Agri Trans 80W
- Castrol TRANSMAX Limited Slip 80W-90
- Castrol TRANSMAX Off-Road 50

## HYDRAULICS

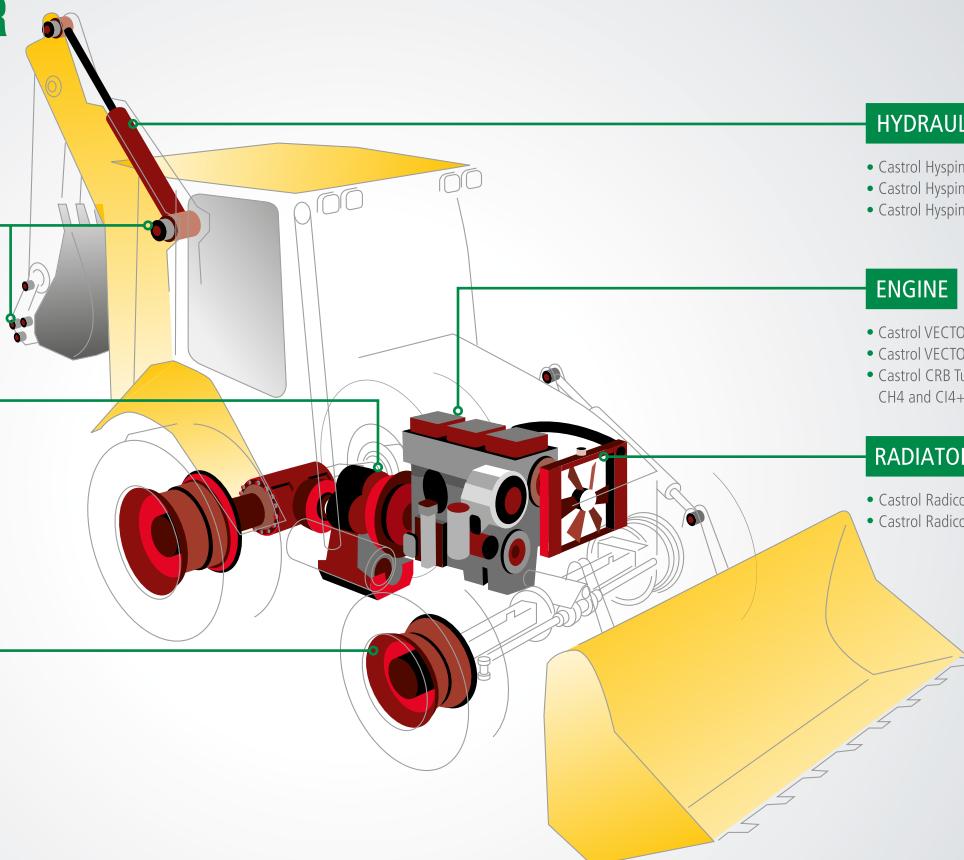
- Castrol Hyspin AWH SC Series
- Castrol Hyspin AWS SC Series
- Castrol Hyspin Heavy Duty Series

## ENGINE

- Castrol VECTON LD 15W-40 CK4
- Castrol VECTON 15W-40 CI4+
- Castrol CRB Turbomax 15W-40 CH4 and CI4+

## RADIATOR

- Castrol Radicool HD
- Castrol Radicool SF-O Premix



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# CASTROL PRODUCT RANGE WHEEL LOADER



## GREASES

- Castrol Mine Grease
- Castrol Spheerol EPL 2
- Castrol LCG 2

## HYDRAULICS

- Castrol Hyspin AWH SC Series
- Castrol Hyspin AWS SC Series
- Castrol Hyspin Heavy Duty Series

## ENGINE

- Castrol VECTON LD 15W-40 CK4
- Castrol VECTON 15W-40 CI4+
- Castrol CRB Turbomax 15W-40 CH4 and CI4+

## RADIATOR

- Castrol Radicool HD
- Castrol Radicool SF-O Premix

## TRANSMISSION

- Castrol TRANSMAX Off-Road 30
- Castrol TRANSMAX Manual Plus 80W-90

## FINAL DRIVE

- Castrol TRANSMAX Off-Road 50
- Castrol TRANSMAX Axle Plus 85W-140
- Castrol TRANSMAX Axle LS 80W-90

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# CASTROL PRODUCT RANGE WASTE TRUCK

## VARIOUS GREASE POINTS

- Castrol Spheerol EPL2
- Castrol LCG2

## ENGINE

- Castrol VECTON LD 15W-40 CK4
- Castrol VECTON 15W-40 CI4+
- Castrol CRB Turbomax 15W-40 CI4+
- Castrol VECTON RX Fuel Saver 10W-40 CI4+

## RADIATOR

- Castrol Radicool HD
- Castrol Radicool SF-O Premix

## CLUTCH BEARINGS

- Castrol Spheerol CV 30K
- Castrol Premium Longlife Grease

## HYDRAULICS

- Castrol Hyspin AWH SC Series
- Castrol Hyspin AWS SC Series
- Castrol Hyspin Heavy Duty Series

## TRANSMISSION

- (MANUAL & AUTOMATIC)
- Castrol TRANSMAX Manual Plus 80W-90
  - Castrol TRANSMAX Manual 90
  - Castrol TRANSMAX ATF Dex/Merc

## DIFFERENTIALS & AXLES

- Castrol TRANSMAX Axle Plus 85W-140
- Castrol TRANSMAX Axle 140
- Castrol TRANSMAX Limited Slip 80W-90

## BRAKE FLUIDS

- Castrol Brake Fluid DOT 3
- Castrol Brake Fluid DOT 4

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# CASTROL PRODUCT RANGE ON-ROAD TRUCK



## RADIATOR

- Castrol Radicool HD
- Castrol Radicool SF-O Premix

## ENGINE

- Castrol VECTON LD 15W-40 CK4
- Castrol VECTON 15W-40 CI4+
- Castrol CRB Turbomax 15W-40 CI4+
- Castrol VECTON RX Fuel Saver 10W-40 CI4+

## CLUTCH BEARINGS

- Castrol Spheerol CV 30K
- Castrol Premium Longlife Grease

## BRAKE FLUID

- Castrol Brake Fluid DOT 3
- Castrol Brake Fluid DOT 4

## TRANSMISSION

(MANUAL & AUTOMATIC)

- Castrol TRANSMAX Manual Plus 80W-90
- Castrol TRANSMAX Manual 90
- Castrol TRANSMAX ATF Dex/Merc

## WHEEL BEARINGS

- Castrol Spheerol CV 80K
- Castrol Spheerol CV 30K
- Castrol Premium Longlife Grease

## DIFFERENTIALS & GEAR DRIVES

- Castrol TRANSMAX Axle Plus 85W-140
- Castrol TRANSMAX Axle 140
- Castrol TRANSMAX Limited Slip 80W-90

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# CASTROL PRODUCT RANGE TRANSIT MIXER

## ENGINE

- Castrol VECTON LD 15W-40 CK4
- Castrol VECTON 15W-40 CI4+
- Castrol CRB Turbomax 15W-40 CH4 and CI4+

## RADIATOR

- Castrol Radicool HD
- Castrol Radicool SF-O Premix

## GREASE POINTS, RODS, PINS & BEARINGS

- Castrol Spheerol CV 80K
- Castrol Spheerol CV 30K
- Castrol Premium Longlife Grease

## HYDRAULIC MIXER

- Castrol Hyspin AWH SC Series
- Castrol Hyspin AWS SC Series
- Castrol Hyspin Heavy Duty Series

## DIFFERENTIALS, AXLES & WHEEL BEARINGS

- Castrol TRANSMAX Axle Plus 85W-140
- Castrol TRANSMAX Axle 140
- Castrol TRANSMAX Limited Slip 80W-90

## CLUTCH BEARINGS

- Castrol Spheerol CV 30K
- Castrol Premium Longlife Grease

## TRANSMISSION

(MANUAL & AUTOMATIC)

- Castrol TRANSMAX Manual Plus 80W-90
- Castrol TRANSMAX Manual 90
- Castrol TRANSMAX ATF Dex/Merc

The product recommendations made on this sheet are appropriate in many makes and models within this equipment type. However, please be sure to consult the OEM manual to ensure that the recommended Castrol product meets the OEM lubricant recommendations and / or specification for each particular component.

# HEAVY DUTY PRODUCT RANGE



## ENGINE OILS

Name of the product	Product Specification	Product Description
CRB Multi 15W-40 API CF-4	API CF-4	<ul style="list-style-type: none"> <li>Multipurpose engine oil, designed for use in a wide range of older generation commercial and heavy duty vehicles.</li> <li>Recommended for use in BS I and BS II turbo charged trucks, tractors, minivans and jeeps.</li> </ul>
CRB Plus 20W-40 API CH-4	API CH-4	<ul style="list-style-type: none"> <li>Engineered with DuraShield™ Boosters.</li> <li>Recommended for use in all turbocharged diesel engines fitted in trucks, tractors, buses, goods carriers (LCVs), off-highway equipment and gensets.</li> </ul>
RX Super Max 15W-40 API CH-4	API CH-4	<ul style="list-style-type: none"> <li>Premium diesel engine oil for the new generation turbo trucks compatible with BS I to BS III types of vehicles.</li> <li>Formulated with Advanced VSF molecule which gives excellent anti-wear, anticorrosion and anti-oxidation properties.</li> <li>Castrol RX Super Max 15W-40 is recommended for up to 36,000 KM drain intervals.*</li> </ul>
CRB Turbomax 15W-40 API CH-4	API CH-4	<ul style="list-style-type: none"> <li>Ideal for use in BS II and BS III compliant turbo charged commercial vehicles and all CH-4 recommended turbo-charged engines.</li> <li>Specially engineered DuraShield™ Boosters that help fight the main causes of engine damage.</li> <li>In severe testing, Castrol CRB Turbomax with DuraShield™ Boosters delivers up to twice the engine life*.</li> </ul>
RX Super Turbo 15W-40 API CI-4 Plus	API CI-4 Plus	<ul style="list-style-type: none"> <li>Contains 'Dispersol Molecules' &amp; is a mixed fleet diesel engine oil for excellent protection to fleets containing vehicles from multi OEMs.</li> <li>Can be used in Bharat III and Bharat IV* trucks, buses and off road vehicles.</li> </ul>
CRB Turbomax 15W-40 API CI-4 Plus	API CI-4 Plus	<ul style="list-style-type: none"> <li>Advanced heavy duty diesel engine oil, suitable for use in high speed 4-stroke diesel engines.</li> <li>Ideal for use in BS II, BS III, BS IV (without DPF), Euro II and Euro III compliant turbo charged commercial vehicles and CI-4 Plus recommended turbo-charged engines.</li> <li>Contains specially engineered DuraShield™ Boosters that help fight the main causes of engine damage &amp; delivers upto 35% better wear protection.</li> </ul>
VECTON RX Fuel Saver 10W-40 API CI-4 Plus	API CI-4 Plus	<ul style="list-style-type: none"> <li>High performance product with unique additive and technology with proven advantage for customers.</li> <li>Fuel efficient engine oil with guaranteed fuel savings upto 3% &amp; ODI 60000 Kms for trucks &amp; tippers.</li> <li>Co-engineered with Tata Motors to ensure the oil is optimised for their current range of commercial vehicles up to BS IV.</li> </ul>
VECTON 15W-40 CI-4 Plus/E7	API CI-4 Plus (Also meets ACEA E7, JASO DH-1, CAT ECF-2, CES - 20.078, Mack EON PP-03, MAN M 3275-1, MB-Approval 228.3, RVI RLD-2 & Volvo VDS 3)	<ul style="list-style-type: none"> <li>Advanced multi grade diesel engine oil, formulated with unique System 5 Technology™.</li> <li>Up to 30% better performance giving proven advantage to customers.</li> <li>Suitable for use in heavy duty diesel engines in on-highway / off-highway applications. (ODI up to 600 Hours).</li> <li>Meets product performance claims from multiple OEMs which makes it ideal for multi-fleet applications.</li> </ul>
RX Essential (New Product)	API CI-4 Plus	<ul style="list-style-type: none"> <li>Suitable for use in high speed 4-stroke diesel engines that use a broad range of fuel qualities.</li> <li>Compatible with diesel engines fitted with exhaust gas recirculation (EGR) systems.</li> </ul>
VECTON Long Drain 15W-40 CK-4/E9 (New Product)	API CK-4 (Also meets ACEA E9, JASO DH-2, CAT ECF-3, Cummins CES 20086, DDC DFS 93K222, Deutz DQC III-10LA, Meets Ford WSS-M2C171-F1, Mack EOS-4.5, MB-Approval 228.31, RVI RLD-4 & Volvo VDS-4.5)	<ul style="list-style-type: none"> <li>Advanced part synthetic heavy duty diesel engine oil that is specifically engineered to deliver longer useful oil life.</li> <li>Suitable for use in high speed 4-stroke diesel engines that use a broad range of fuel qualities.</li> <li>BS VI compliant engine oil for diesel engines fitted with EGR and the latest after treatment systems such as; DPF, DOC and/or SCR.</li> <li>Castrol VECTON Long Drain with System Pro Technology™ is specifically engineered and tested for extended drains up to 1,20,000 Kms*.</li> </ul>

## AXLE OILS

Name of the product	Product Specification	Product Description
Transmax Axle Plus GL5 85W-140	API GL 5	<ul style="list-style-type: none"> <li>• Multigrade GL5 rear axle oil recommended for differentials, transaxles and transmissions requiring API GL-5 oils.</li> <li>• Suitable for both regular and turbocharged vehicles.</li> </ul>
Transmax Axle GL4 140	API GL 4	<ul style="list-style-type: none"> <li>• Can be used in applications where API GL-4 performance is required.</li> <li>• Having good thermal stability protects against deposit formation and oil thickening maintaining the life and performance of lubricant and transmission.</li> </ul>
Transmax Axle Limited Slip 80W-90	API GL 5	<ul style="list-style-type: none"> <li>• Mineral oil based gear oil which is suitable for use in limited slip differentials in cars and commercial vehicles where API GL-5 with specific limited slip friction performance is required.</li> <li>• Can also be used in conventional differentials.</li> </ul>
Axle GL-5 85W-140	API GL 5	<ul style="list-style-type: none"> <li>• Multigrade gear oil fortified to meet the requirements of API GL-5 for hypoid gears featured in automotive differentials specified in highly loaded spiral bevel or planetary gearboxes on offshore installations and onshore drilling sites.</li> </ul>

## GEAR OILS

Name of the product	Product Specification	Product Description
Transmax Manual Plus GL-4 80W-90	API GL 4	<ul style="list-style-type: none"> <li>• Multigrade gear oil suitable for both regular and turbo charged vehicles requiring API GL-4 performance.</li> </ul>
Transmax Manual GL4 90	API GL 4	<ul style="list-style-type: none"> <li>• Can be used in applications where API GL-4 performance is required.</li> <li>• Good antiwear and load carrying characteristics extend the life of components.</li> </ul>
Alpha SP Series	DIN 51517 Part 3. AGMA 9005 - D94 US Steel 224. David Brown Type E. Hansen Transmissions. Flender.	<ul style="list-style-type: none"> <li>• Based upon highly refined mineral oil, enhanced with an extreme pressure additive technology providing good thermal stability and high load carrying capacity.</li> <li>• Recommended for lubrication of industrial gear boxes using forced circulation or splash and oil bath lubrication.</li> <li>• Can be used for the lubrication of spur and helical gears and in some lightly loaded worm type gear applications.</li> <li>• Classified as follows: DIN Classification is CLP. American Gear Manufacturers Association (AGMA) EP Classification.</li> </ul>
Manual GL4 80W-90	API GL 4	<ul style="list-style-type: none"> <li>• Manual Transmission Fluid used in applications where API GL-4 performance is required.</li> </ul>

## BRAKE FLUIDS

Name of the product	Product Specification	Product Description
Brake Fluid DOT3	FMVSS 116 - DOT 3 4925 JASO JIS K2233 SAE J1703	<ul style="list-style-type: none"> <li>• High boiling synthetic brake fluid which far exceeds the requirements of the SAE J1703, SAE J1704, FMVSS 116 DOT 3 , ISO 4925 and JIS K 2233 specifications.</li> <li>• Designed for use in all brake systems which are exposed to extreme conditions.</li> </ul>
Brake Fluid DOT4	JIS K2233 SAE J1703 SAE J1704 ISO 4925 Class 4 FMVSS DOT 4	<ul style="list-style-type: none"> <li>• High boiling synthetic brake fluid which far exceeds the requirements of the SAE J1703, SAE J1704, FMVSS 116 DOT 3 , ISO 4925 and JIS K 2233 specifications.</li> <li>• Designed for use in all brake systems particularly those which are exposed to extreme conditions.</li> </ul>

## COOLANTS

Name of the product	Product Specification	Product Description
Long Life Coolant	This coolant meets the following specifications: ASTM D3306(I) BS6580:2010 JIS K 2234	<ul style="list-style-type: none"> <li>• Silicate free concentrate antifreeze, formulated using advanced organic acid technology(OAT).</li> <li>• Suitable for use in a wide range of vehicles, including cars, trucks and buses.</li> <li>• Can be used in both petrol and diesel engines.</li> <li>• Works over a wide operating temperature range for effective engine cooling in all climates.</li> </ul>
Radical Heavy Duty	This coolant meets the following specifications ASTM D3306(I), ASTM D4985, BS 6580:2010, JIS K2233	<ul style="list-style-type: none"> <li>• Coolant concentrate engineered to deliver maximum protection in heavy duty diesel engines &amp; suitable for trucks and off highway equipment requiring ASTM D 4985 type performance.</li> </ul>
Radical Essential	This coolant concentrate conforms to - BS 6580:2010	<ul style="list-style-type: none"> <li>• High quality coolant offering corrosion protection for vehicle cooling systems in warmer climates, where freezing protection is not required.</li> <li>• Suitable for conventional cooling systems in automobile petrol and diesel engines.</li> <li>• Contains low levels of ethylene glycol and is formulated without silicates, nitrites, amines and phosphates, minimizing its environmental impact.</li> <li>• Based on a coolant concentrate conforming to BS 6580:2010 specification for corrosion inhibition.</li> </ul>
Radical SFO Pre Mix	This coolant meets the following specifications: ASTM D3306(III) ASTM D4985 Produced from concentrate meeting: BS 6580:2010, JIS K2234 AS2108:TypeA	<ul style="list-style-type: none"> <li>• Long-life ready to use coolant based on monoethyleneglycol and distilled water.</li> <li>• The special organic acid inhibitor package used in Radical SF-O premix enables longer drain intervals with optimal protection against corrosion, radiator blockage, overheating and freezing.</li> <li>• Provides year round protection against corrosion and offers freezing protection down to -37 deg C.</li> </ul>

## TRANSMISSION OILS

Name of the product	Product Specification	Product Description
Transmax Offroad 30	SAE 30	<ul style="list-style-type: none"> <li>• Transmission lubricant using highly refined mineral oil, designed for use in powershift transmissions, direct drive transmissions, wet disc brakes, final drives and differentials.</li> <li>• Suitable for off-road machinery where Caterpillar TO-4 is required.</li> </ul>
Transmax Offroad 50	SAE 50	<ul style="list-style-type: none"> <li>• Transmission lubricant using highly refined mineral oil, designed for use in powershift transmissions, direct drive transmissions, wet disc brakes, final drives and differentials in off-road machinery where Caterpillar TO-4 is required.</li> </ul>
RX 30	SAE 30	<ul style="list-style-type: none"> <li>• Multi-functional diesel engine oil blended from highly refined base oils and advanced additives.</li> <li>• Primarily recommended for use in transmissions in off-highway machinery.</li> <li>• It may also be used in diesel engines and other applications where a monograde oil meeting API CD or JASO DH-1 is required.</li> </ul>
Transmax Agri Trans M 80W	API GL-4 product of viscosity grade SAE 80W.	<ul style="list-style-type: none"> <li>• Premium multi-purpose fluid recommended by Castrol for use in Wet Brake farm tractors for lubrication of Mechanical transmission systems requiring a API GL-4 product.</li> <li>• Suitable for drive axles fitted with wet brakes, Hydraulic circuits in lifting, power-assistance, transmission and steering systems, Power take-off.</li> </ul>
Transmax ATF Dex/Merc	Dexron® (II or III)	<ul style="list-style-type: none"> <li>• Designed for use in automatic transmissions where Dexron® (II or III) or Mercon performance is required &amp; can be used as Power Steering Fluid.</li> </ul>

## GREASES

Name of the product	Product Specification	Product Description
Premium Long Life Grease	NLGI 3, Lithium Based	<ul style="list-style-type: none"> <li>Lithium based, NLGI 3 grade automotive grease manufactured from superior quality base stock, lithium thickener technology and fortified with performance additives.</li> <li>It has extremely good storage and service stability.</li> </ul>
LCG 2 Grease	NLGI 2, Lithium-Complex	<ul style="list-style-type: none"> <li>Premium quality grease manufactured from lithium complex soap.</li> <li>Highly refined mineral oils and fortified with extreme pressure and anti-wear additives.</li> <li>Superiority over conventional greases can be exhibited by its high drop point of over 260 °C.</li> <li>Excellent roll stability, superior water washout resistance, low coefficient of friction, high load carrying ability, good adhesion property and resistance to oil separation under pressure.</li> </ul>
Spheerol CV 30 K	NLGI 3, Lithium Based, Colour-Brown	<ul style="list-style-type: none"> <li>Lithium soap base automotive grease of NLGI 3 consistency.</li> <li>Manufactured from superior quality base stock and special lithium soap.</li> <li>Fortified with anti-oxidant and anti-rust additive.</li> <li>Extremely good storage and service stability.</li> </ul>
Spheerol CV Performance 80K	NLGI 2.5, Lithium-Complex, Colour-Red	<ul style="list-style-type: none"> <li>High quality, lubricating grease developed primarily for the tough Indian trucking environment to provide protection up to 80,000 Kms.</li> <li>Gel type grease is blended using a combination of base oil, special lithium complex thickener technology and performance additives.</li> </ul>
Ball Bearing Grease EPL 1	NLGI 1, Lithium Based, Dark Brown EP Grease	<ul style="list-style-type: none"> <li>Multipurpose lithium soap base greases of NLGI 1 consistency.</li> <li>Having good extreme pressure, anti-oxidant and anti-rust properties, where contacting surfaces are exposed to very heavy pressure and shock loads.</li> </ul>
Ball Bearing Grease EPL 2	NLGI 2, Lithium Based, Dark Brown EP Grease	<ul style="list-style-type: none"> <li>Multipurpose lithium soap base greases of NLGI 2 consistency.</li> <li>Having good extreme pressure, anti-oxidant and anti-rust properties, where contacting surfaces are exposed to very heavy pressure and shock loads.</li> </ul>
Ball Bearing Grease EPL 0	NLGI 0, Lithium Based, Dark Brown EP Grease	<ul style="list-style-type: none"> <li>Multipurpose lithium soap base greases of NLGI 0 consistency.</li> <li>Having good extreme pressure, anti-oxidant and anti-rust properties, where contacting surfaces are exposed to very heavy pressure and shock loads.</li> </ul>
Spheerol EPL1	NLGI 1, Lithium Based, Amber to Brown Lead free EP Grease	<ul style="list-style-type: none"> <li>Lithium based products containing highly refined mineral oils.</li> <li>Fortified with extreme pressure (EP) additives as well as corrosion and oxidation inhibitors.</li> <li>These greases have been formulated with additives that provide good film strength under medium to high loads.</li> </ul>
Spheerol EPL2	NLGI 2, Lithium Based, Amber to Brown Lead free EP Grease	<ul style="list-style-type: none"> <li>Lithium based products containing highly refined mineral oils.</li> <li>Fortified with extreme pressure (EP) additives as well as corrosion and oxidation inhibitors.</li> <li>These greases have been formulated with additives that provide good film strength under medium to high loads.</li> </ul>
Spheerol EPL0	NLGI 0, Lithium Based, Amber to Brown Lead free EP Grease	<ul style="list-style-type: none"> <li>Lithium based products containing highly refined mineral oils.</li> <li>Fortified with extreme pressure (EP) additives as well as corrosion and oxidation inhibitors.</li> <li>These greases have been formulated with additives that provide good film strength under medium to high loads.</li> </ul>
Mine Grease	NLGI-2, Lithium based , Dark Grey EP Grease with, 3% molybdenum disulphide (MoS2)	<ul style="list-style-type: none"> <li>Extreme pressure lithium grease formulated with specially selected base oil combinations that provide optimal pumpability.</li> <li>Also contains 3% molybdenum disulphide, which provides additional wear protection under conditions of vibratory motion.</li> <li>Provides protection against wear under heavy and shock loads, high temperature and wet environments.</li> </ul>

## HYDRAULIC OILS

Name of the product	Product Specification	Product Description
Castrol Hyspin VG Series	DIN 51502 classification - HL, ISO 6743/4 - Hydraulic Oils Type HL	<ul style="list-style-type: none"> <li>Based upon highly refined mineral oil enhanced with rust and oxidation inhibitors.</li> <li>Classified as follows: DIN 51502 classification - HL, ISO 6743/4 - Hydraulic Oils Type HL.</li> </ul>
Castrol Hyspin Heavy Duty Series	DIN 51524 Part 2	<ul style="list-style-type: none"> <li>Based upon highly refined mineral oil enhanced with a stabilized zinc additive system.</li> <li>Meet the requirements (for appropriate viscosity grade) of: DIN 51524 Part 2.</li> </ul>
Castrol Hyspin AWS Series	DIN 51502 classification - HLP ISO 6743/4 - Hydraulic Oils Type HM	<ul style="list-style-type: none"> <li>Based upon highly refined mineral oil with a low zinc containing anti-wear system.</li> <li>Specially formulated to provide good anti-wear and thermal stability performance of systems which require anti-wear protection.</li> <li>Classified as follows: DIN 51502 classification - HLP ISO 6743/4 - Hydraulic Oils Type HM.</li> </ul>
Castrol Hyspin AWS Superclean (SC) Series	DIN 51502 classification - HLP ISO 6743/4, DIN 51524 Part 2.	<ul style="list-style-type: none"> <li>Based upon highly refined mineral oil enhanced with a stabilised zinc additive system.</li> <li>Filtered to ISO 4406 - 16/14/11 (similar to NAS 6).</li> <li>Classified as follows: DIN 51502 classification - HLP ISO 6743/4 - Hydraulic Oils Type HM.</li> <li>Meet the requirements (for appropriate viscosity grade) of: DIN 51524 Part 2.</li> </ul>
RX 10W	Meeting API CD or JASO DH-1	<ul style="list-style-type: none"> <li>Multi-functional lubricant blended with highly refined mineral oil and advanced additives.</li> <li>Primarily recommended for use in hydraulic systems of excavators, dumpers and other off-highway equipment.</li> <li>Approved for use in Komatsu equipment.</li> <li>Can also be used in other applications where a monograde 10W oil meeting API CD or JASO DH-1 performance is required.</li> </ul>
Castrol Hyspin AWH Superclean (SC) Series	ISO 6743/4 - Hydraulic Oils Type HM, DIN 51524 Part 3	<ul style="list-style-type: none"> <li>Hydraulic oil with viscosity index improver (VI) range is based upon highly refined mineral oil enhanced with a stabilised zinc additive system.</li> <li>Filtered down to ISO class 15/13/10 (similar to NAS 6).</li> <li>Classified as follows: ISO 6743/4 - Hydraulic Oils Type HM.</li> <li>Meets the requirements (for appropriate viscosity grade) of: DIN 51524 Part 3.</li> </ul>
Transmax Agri Trans 80W	Tractor Hydraulic Fluid	<ul style="list-style-type: none"> <li>Tractor Hydraulic Fluid recommended for use in Tractor Transmission, Hydraulics &amp; Oil immersed brakes/ clutches.</li> <li>Product Performance Claims API GL-4.</li> <li>Equivalent for Agri Power Trans 10W-30.</li> </ul>

## TRANSFORMER OIL

Name of the product	Product Specification	Product Description
Perfecto TR UN	Standard IEC 60296, Edition 4.0, 2012 02.	<ul style="list-style-type: none"> <li>Pure mineral hydrocarbon oil, specially refined and blended from selected crudes which has also been designed for use as a transformer, switchgear and circuit breaker oil which conforms to IEC 60296:2012.</li> </ul>

## THERMIC FLUID/HEAT TRANSFER OIL

Name of the product	Product Specification	Product Description
Perfecto™ HT 5 D	This product was previously called Supertherm 550. The name was changed in 2015.	<ul style="list-style-type: none"> <li>Previously called Supertherm™ 550 is a premium; high performance fluid designed for excellent performance in Thermic Fluid Heating Systems.</li> <li>Blended from highly refined base stocks and carefully selected additive package to make it suitable as a long life thermic fluid for a wide range of temperature applications in Thermic Fluid heaters.</li> </ul>

## COMPRESSOR OIL

Name of the product	Product Specification	Product Description
Aircol PD Series	DIN 51506 classification - VDL ISO 6743/3 - DAA and DAB for reciprocating air compressors, DAG for rotary air compressors	<ul style="list-style-type: none"> <li>Based upon highly refined mineral oils and carefully chosen additives.</li> <li>Intended for lubrication of rotary &amp; reciprocating compressors.</li> <li>They are ashless oils recommended for lubrication of rotors, bearings and gears in rotary compressors, especially the oil flooded screw type with lubricant drain cycles of up to 2000 hours under normal use.</li> <li>Meets the requirements of major compressor OEMs such as Atlas Copco, Champion, Sullair, Compair/ Broomwade, Ingersoll-Rand, Kaeser and Bauer.</li> </ul>
Aircol SN Series	Synthetic diesters, Aircol SN grades have up to eight times the service life of mineral oils.	<ul style="list-style-type: none"> <li>Synthetic Air Compressor Lubricant.</li> <li>Formulated to cope with the severe operating conditions experienced in rotary screw, rotary vane and reciprocating air compressors operating at high compression ratios and high discharge temperatures.</li> </ul>
Aircol SR Series	DIN 51506 classification - VDL ISO 6743/3 - DAG, DAH and DAJ for rotary air compressors	<ul style="list-style-type: none"> <li>Premium lubricants designed for use in rotary screw compressors and are based on polyalphaolefin (PAO) fluids.</li> <li>For normal operating conditions, these products can be used for extended drain intervals up to 8000 hours.</li> <li>Fully compatible with nitrile, silicone, polyurethane and fluropolymer seal materials typically used in compressor units.</li> <li>Not compatible with butadiene styrene (SBR) or ethylene propylene (EPDM) seals.</li> <li>Meets the requirements of: Atlas Copco 8000 hour oil drain interval &amp; Kaeser</li> </ul>

## HPL PRODUCTS

Name of the product	Product Specification	Product Description
Molub Alloy 777-2 ES	Lithium-Based, NLGI-2, Dark Grey colour, upto 5% Molybdenum-Disulphide (MoS <sub>2</sub> )	<ul style="list-style-type: none"> <li>Designed for very heavy duty service in adverse environments which is blended and compounded to withstand heavy and shock loading, commonly found in the steel/ primary metals, construction, mining and forest products industries.</li> </ul>
Tribol GR 100 PD Series	Lithium-Based grease, NLGI-00/0/1/2, Brown colour	<ul style="list-style-type: none"> <li>Containing highly refined mineral oils, enhanced with the MicroFlux Trans (MFT) additive system.</li> <li>Tribol GR 100-0 PD and 100-00 PD can be used as semifluid grease lubricants in gears such as flange, drum-type and worm gears. These two products are also suitable for use in gears without oil-tight enclosures, gear wheels and rolling bearings with a grease reservoir.</li> </ul>
Optigear Synthetic X Series	CLP-HC gear oil (according to DIN 51502) and exceeds the minium requirements according to DIN 51517 (2003), PART 3, CLP gear oils	<ul style="list-style-type: none"> <li>High Performance Gear Oil based on synthetic hydrocarbons (PAO) and a special plastic deformation (PD) and surface improvement additive package which gets activated by high specific loads and corresponding temperatures &amp; helps to equalize surface roughness without creating abrasion leading to the surface improvement (plastic deformation).</li> </ul>
Optigear Synthetic 800 Series	Polyalkyleneglycol (PAG) based synthetic gear oil with high viscosity index (VI).	<ul style="list-style-type: none"> <li>Synthetic Gear Oil (PAG) developed for lubrication of heavily loaded gears, bushings and bearings which may operate over a broad range of temperatures from ambient to elevated temperatures (&gt;80°C/176°F). Intended for all types of heavily loaded gears including spur, bevel and worm gears.</li> </ul>
Molub-Alloy 936 SF Heavy	Open gear compounds (solvent free), NLGI-0	<ul style="list-style-type: none"> <li>Suitable for use on all types of open gears, racks &amp; pinions and sliding or skidding applications such as draglines &amp; shovels &amp; can be applied either manually or by heavy duty automatic systems.</li> <li>Complies with the Bucyrus International SD 4713 specification (CAT) and Komatsu specifications</li> </ul>
Molub-Alloy WR 1000	Slate Grey, Oily Fluid, Kinematic Viscosity @40°C/ 104°F is 1000 mm <sup>2</sup> /sec	<ul style="list-style-type: none"> <li>Wire rope lubricant based on high viscosity index, highly refined paraffinic petroleum oils, compounded with additives, which impart strong adhesive and film forming properties, corrosion protection and antiwear characteristics.</li> <li>Designed for use on dragline hoist and drag ropes, shovel hoist and crowd ropes, winder and guide suspension cables and cranes hoist ropes.</li> <li>Environmentally acceptable rope lube in that does not contain solvents, lead, barium, zinc, antimony or other ecologically undesirable additives.</li> </ul>



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To download Product Data Sheet & Material Safety Data Sheet please use below link (copy & paste it on your browser):

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