DURA-LAST™
Lubricants



DURA-LAST LUBRICANTS™

PRODUCT SPECIFICATION CATALOG

PCMO | HDEO | HDMO | TRANSMISSION | INDUSTRIAL | GREASE | TURBO| MARINE

Over the years we have specialized in the development and production of our Lubricants, formulating them with the highest quality bases oil and additives and the most advanced technology.

We exceed API specifications, providing an oil that allows us to meet and exceed market specifications.

Our products are formulated with base oil and additives made in the USA, depending on the grade of oil, with Group II and III mineral and semi-synthetic Group III and IV and PAO in the synthetics.

We offer lubricants for passenger cars, industrial, light and heavy duty and severe duty, for example: lubricant applications in fleets, construction, mining, agriculture, buses, gas, maritime industries, motorcycles.

BSP?+J?QR LUBRICANTS GLA, offers more than 35 years of experience in the industry. It has qualified, technical and certified personnel that helps our customers in all applications and needs.

MOTORCICLE



4T 20W-50, Formulated to eliminate oil breakdown. Reduces temperatures inside the engine to improve performance.

4T MOTORCYCLE OIL

4T SYN BLEND 20W-50 MOTORCYCLE OIL Technology is a 4-stroke motorcycle oil specially formulated to provide outstanding, durable protection under severe, high torque, high stress conditions.

TYPICAL PHYSICAL CHARACTERISTICS

SPECIFICATIONS / ESPECIFICACIONES	METHOD	4T 20W-50
VISCOSITY, KINEMATIC, CST AT 40°C	ASTM D445	162
VISCOSITY, KINEMATIC, CST AT 100°C	ASTM D445	18.0
VISCOSITY INDEX	ISO 2909	120
FLASH POINT (COC) °C(°F)	ISO 2592	240 (454)
POUR POINT, °C(°F)	ISO 3016	-24 (-11.2)
DENSITY @ 15°C	ASTM D4052	890

BENEFITS

- Premium Technology and special oil formulation help to remove deposits and keep oil viscosity for a longer time.
- Smooth clutch and superior gearbox optimized viscometrics for smoother clutch engagement and gear changes.
- It provides appropriate friction in clutch discs, preventing slipping and premature wear in the engine and transmission lubrication systems (wet clutch).
- Reduce vibration and damping engine noise.
- Delivers superior engine wear protection and high film strength for high revving motorcycle engines.
- Specialized additives help prevent against ringsticking and build-up of harmful deposits.
- Its viscosity ensures perfect lubrication in extreme conditions.
- Suitable for both motorcycles with dry and submerged clutches.
- High resistance to oxidation, protecting the engine from the high temperatures jaso MA MB.

4T – SYN BLEND 10W-40

4T SYN BLEND 10W-40 MOTORCYCLE OIL Technology is a 4-stroke motorcycle oil specially formulated to provide outstanding, durable protection under severe, high torque, high stress conditions.

TYPICAL PHYSICAL CHARACTERISTICS

SPECIFICATIONS / ESPECIFICACIONES	METHOD	4T 10W-40
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- High resistance to oxidation, protecting the engine from the high temperatures





950 ml

2T TCW-3

TC W-3, is a Line applicable for water, air, land, incorporating highly refined paraffinic base from North America along with a system of special additives. They are carefully blended together to formulate a lubricant that protects these big movements.



2T TCW-3

DURA-LAST 2T TXW -3 It Is an oil manufactured with highly refined Group II Bases and an additive package designed for hlgh-perfonnance water-cooled two-stroke engines used in outboard marine applications, as well as in light-duty air-cooled two-stroke engines or moderate, which are used In lawnmow-ers, motorcycles, chain saws, leaf blowers and edgers in others

BENEFITS

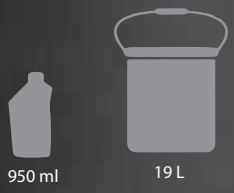
- Offers a clean engine, excellent additives to facilitate mixing with the fuel,for out-board engines and where NMMA oils TC-W, TC-WII are recommended orTC-W3.
- Pro-motes combustion cleaner and less deposit in the combustion area, unsurpassed protection anti-wear.
- Good thermal stablllty and to oxidation, reduces spark plug failure during pre-Ignition, cleaner spark plugs.

TYPICAL PHYSICAL CHARACTERISTICS

SPECIFICATIONS / ESPECIFICACIONES	TCW-3
VISCOSITY INDEX	98
GRAVITY, API	27.6
FLASH POINT C.	88
VISCOSITY CST@40°C	55
VISCOSITY CST@100°C	8.9
BASE NUMBER	4.7
SULPHATED ASH % WT	0.01
POUR POINT, C.	-35

GALLONS OF GASOLINE	1	2	3	4	5	6
16:1 Ratio	8	16	24	32	40	48
24:1Ratio	5	11	16	21	27	32
32:1 Ratio	4	8	12	16	20	24
50:1 Ratio	3	5	8	11	13	16
100:1 Ratio	2	3	4	6	7	8





PCMO

MOTOR OIL are formulated with the highest quality base oils and enhanced with the most advanced additive technology for performance that meets the latest requirements of modern vehicles.

MINERAL MOTOR OILS

MINERAL MOTOR OILS are formulated with a combination of synthetic and conventional base oils to provide better cold temperature performance over conventional motor oils.

BENEFITS

- Strong antiwear protection.
- Excellent protection against thermal breakdown.
- Outstanding protection for turbocharged engines.
- Its advanced formula will keep your engine clean, rust-free and protected.
- API SN or GF-5 motor oil.

TYPICAL PHYSICAL CHARACTERISTICS

SPECIFICATIONS / ESPECIFICACIONES	5W-20	5W-30	10W-30	10W-40	20W-50
VIS, COLD CRANK, °C/POISE	-30/42	-30/37	-25/42	-25/42	-25/41
VIS, CST @ 40°C	47.0	60.0	69	95	165
VIS, CST @ 100°C	8.9	10.6	10.3	14	18.5
VISCOSITY INDEX (MIN)	161	170	136	150	180
FLASH POINT, °F (°C)	460	457	457	248	248
POUR POINT, °F (°C)	-30 (-42)	-30 (-37)	-40	-40	-32
SULFATED ASH, WT %	0.8	0.8	0.8	0.8	0.8
PHOSPHORUS, WT %	0.076	0.077	0.067	0.067	0.077



BENEFITS

- Strong antiwear protection gas and diesel.
- Excellent protection against thermal breakdown.
- Outstanding protection for turbocharged engines.
- Its advanced formula will keep your engine clean, rust-free and protected.
- Satisfies warranty requirements of cars, light trucks, andsports-utility.



PCMO

FULL SYNTHETIC MOTOR OILS

FULL SYNTHETIC MOTOR OILS are formulated with the highest quality synthetic base oils and enhanced with the most advanced additive technology for ultimate performance in meeting the latest requirements for modern engines.

BENEFITS

- Efficient cold weather starting due to excellent low temperature properties of the synthetic base oils.
- Clean engines and emission systems
- Long engine life due to extremely fast lubrication during starting Increased thermal and oxidation stability.
- Reduces formation of sludge and varnish deposits.
- Improves oil film strength and breakdown resistance.
- Lowers oil vaporization and consumption at extreme conditions.



TYPICAL PHYSICAL CHARACTERISTICS

SPECIFICATIONS / ESPECIFICACIONES	0W-20	5W-20	10W-30	5W-30
GRAVITY, API	42.0	34.7	30.86	29.0
VIS, COLD CRANK, °C/POISE	-35	-30/42	-30/37	-25/41
VIS, CST @ 40°C	42	47.0	89.87	61.0
VIS, CST @ 100°C	8.0	8.9	13.07	10.0
VISCOSITY INDEX (MIN)	167	161	170	153
FLASH POINT, °F (°C)	-43	-42(-44)	-42(-44)	-38(-38)
POUR POINT, °F (°C)	-35	-30(-42)	-30 (-37)	-25 (-41)
SULFATED ASH, WT %	10.0	11.5	13	7
PHOSPHORUS, WT %	0.077	0.076	0.077	0.077
ZINC, WT %	0.089	0.083	0.083	0.083



SYN-BLEND MOTOR OILS

SYN-BLEND MOTOR OILS are made with synthetic blend and conventional base oils to provide better cold temperature performance over conventional motor oils.

BENEFITS

- Strong antiwear protection.
- Excellent protection against thermal breakdown.
- Outstanding protection for turbocharged engines.
- Its advanced formula will keep your engine clean, rust-free and protected.
- API SN or GF-5 motor oil.



TYPICAL PHYSICAL CHARACTERISTICS

SPECIFICATIONS / ESPECIFICACIONES	5W-20	5W-30	10W-30	10W-40	20W-50
GRAVITY, API	33.2	34.1	31.8	30.86	29.0
VIS, COLD CRANK, °C/POISE	-30/50	-30/42	-25/41	-25/	-15/80
VIS, CST @ 40°C	46.4	60.2	63.5	89.87	160.2
VIS, CST @ 100°C	8.4	10.6	10.0	13.07	19.5
VISCOSITY INDEX (MIN)	150	165	145	145	130
FLASH POINT, °F (°C)	>392 (200)	>392 (200)	>392 (200)	>428 (220)	>401 (205)
POUR POINT, °F (°C)	-38 (-39)	-44 (-42)	-38 (-39)	-27 (-33)	-11 (-24)
SULFATED ASH, WT %	0.9	0.9	0.9	0.9	0.9
PHOSPHORUS, WT %	0.075	0.075	0.075	0.079	0.099
ZINC, WT %	0.082	0.083	0.082	0.085	0.110



HDEO

HEAVY DUTY ENGINE OILS high performance engine oil formulated to provide unsurpassed performance in diesel and 4-stroke gasoline engines, whether naturally aspirated or turbo charged.



15W-40 CK-4 / SYNTHETIC BLEND

15W-40 ENGINE OIL API CK-4 / SN is our top of the line super high performance engine oil formulated to provide unsurpassed performance in diesel and 4-stroke gasoline engines, whether naturally aspirated or turbo charged. It is the universal oil that is designed for the mixed fleet. It meets or exceeds performance requirements for API service grades SL*,SJ*,CF*,CF2, CE*, CG-4, CH-4 and CI-4 as well as U.S. military specifications MIL-L 2104F, MIL-L46152E and most other engine oil specifications of the major engine manufacturers.

15 W 40 ENGINE OIL API CK-4 / SN is formulated from Premium North American Group II base oils and additives. 15 W-40 ENGINE OIL API CK-4 / SN has anti-wear protection, that significantly increases fuel economy, minimizes engine wear, and lowers engine-operating temperatures. Detergents minimize deposits and neutralize corrosive byproducts of combustion by providing the extra reserve alkalinity (TBN) to prevent rust and corrosion even when fuels containing high sulfur levels are in use. Shear- stable viscosity improving polymers impart improved viscometric characteristics for optimum performance and fuel economy during both cold starts and high operating temperatures in any climate. Antifoam agents assure proper lubrication to all engine parts. Powerful antioxidants and dispersants prolong oil life and extend drain intervals

TYPICAL PHYSICAL CHARACTERISTICS

SAE GRADE	SYN BLEND 15W-40
GRAVITY, API	29
FLASH POINT, °F	446
VIS, CST @ 40°C	112
VIS, CST @ 100°C	14.6
VISCOSITY INDEX	135
TBN, MG KOH/G	10
POUR POINT, °F	-43
SULFATED ASH, WT.%	0.87



MOTOR OILS CI-4

15W-40 CI4 / SN is a heavy duty gasoline and diesel engine oil for extended drain capability that meet the CI-4 specification, providing the highest level of protection in severe on and off highway to modern, high performance diesel engines HTHS of 4.2

CUSTOMER BENEFITS

- Excellent soot-viscosity control
- Superior oxidation performance
- Synthetic Blend Formulation
- Universal product for mixed fleet operations
- Designed to optimize after-treatment service life in systems on 2007-and-newer trucks
- Minimizes valve train wear
- Excellent low temperature properties helps speed cold starts

TYPICAL PHYSICAL CHARACTERISTICS

SAE GRADE	15W40
TOTAL BASE NUMBER, MG KOH/G, ASTM D 2896	10
VIS, CST @ 40°C	110
VIS, CST @ 100°C	15
VISCOSITY INDEX ASTM D 2270	140
SULFATED ASH, WT% ASTM D 874	0.9
POUR POINT, °C, ASTM D 97	-35
FLAHS POINT, °C, ASTM D 92	241
DENSITY @15 °C KG/L, ASTM D 4052	0.87



HDEO

15W-50 CI - 4 PLUS

15W-50 ENGINE OIL API CI4+ CI-4/SN Super high performance engine oil formulated to provide unsurpassed performance in diesel and gasoline engines, whether naturally aspirated or turbo charged. It is the universal oil that is designed for the mixed fleet. It meets or exceeds performance requirements for API service grades SL*,SJ*,CF*,CF2, CE*, CG-4, CH-4 and CI-4 as well as U.S. military specifications MIL-L 2104F, MIL-L46152E and most other engine oil specifications of the major engine manufacturers.

15W-50 ENGINE OIL API CI4+ CI-4/SN is formulated from Premium North American Group II base oils and additives. 15 W-40 ENGINE OIL API CI4+ CI-4/SN has anti-wear protection, that significantly increases fuel economy, minimizes engine wear, and lowers engine-operating temperatures. Detergents minimize deposits and neutralize corrosive byproducts of combustion by providing the extra reserve alkalinity (TBN) to prevent rust and corrosion even when fuels containing high sulfur levels are in use. Shear- stable viscosity improving polymers impart improved viscometric characteristics for optimum performance and fuel economy during both cold

TYPICAL PHYSICAL CHARACTERISTICS

SAE GRADE	15W-50
GRAVITY, API	29
FLASH POINT, °F	400
VIS, CST @ 40° C	104
VIS, CST @ 100°C	15
VISCOSITY INDEX	135
TBN, MG KOH/G	10
POUR POINT, °	-20
SULFATED ASH, WT.%	1.4

20W-50 CI-4 - GAS DIESEL / 25W50 SG/CD

20W-50 CI-4. GAS DIESEL / 25W50 SG/CD Super high performance engine oil formulated to provide unsurpassed performance in diesel and gasoline engines, whether naturally aspirated or turbo charged. It is the universal oil that is designed for the mixed fleet. It meets or exceeds performance requirements for API service grades SL*,SJ*,CF*,CF2, CE*, CG-4, CH-4 and CI-4 as well as U.S. military specifications MIL-L 2104F, MIL-L46152E and most other engine oil specifications of the major engine manufacturers.

20W-50 CI-4 GAS DIESEL is formulated from Premium North American Group II base oils and additives. 20W-50 CI-4 GAS DIESEL / 25W50 SG/CD has anti-wear protection, that significantly increases fuel economy, minimizes engine wear, and lowers engine-operating temperatures. Detergents minimize deposits and neutralize corrosive byproducts of combustion by providing the extra reserve alkalinity (TBN) to prevent rust and corrosion even when fuels containing high sulfur levels are in use. Shear- stable viscosity improving polymers impart improved viscometric characteristics for optimum performance and fuel economy during both cold stars and high operating temperatures in

TYPICAL PHYSICAL CHARACTERISTICS

SAE GRADE	20W-50	25W-50
GRAVITY, API	29	32
FLASH POINT, °F	430	43
VIS, CST @ 40°C	104	2 0
VIS, CST @ 100°C	15	1 .3
VISCOSITY INDEX	135	10
TBN, MG KOH/G	10	10
POUR POINT, ° F	-20	-2
SULFATED ASH, WT.%	1.4	0.

SAE 30, 50, 40

LUBE monograde motor oils are formulated with advanced additive technology and highly refined, premium quality basestocks that protect today's engines against undesirable deposits, contamination, and viscosity and thermal breakdown under severe service conditions.

LUBE are recommended to be used in two and fourcycle gasoline and diesel engines, where the appropriate API service category and SAE 30, 40 or 50 viscosity grade is required

TYPICAL PHYSICAL CHARACTERISTICS

SPECIFICATIONS / ESPECIFICACIONES	SAE 30	SAE 40	SAE 50
GRAVITY, API	27.6	27.3	27
FLASH POINT, °F	430	440	450
VIS, CST @ 40°C	98	144	211
VIS, CST @ 100°	11.5	14.5	18.5
VISCOSITY INDEX	111	108	102
POUR POINT, °	-10	11	-6
SULFATED ASH, WT.%	1	1	1

BENEFITS

- Resists breakdown in the most severe engine environments.
- High Detergency; Protects again formation of sludge and varnish deposits that reduce engine life.
- Contains anti-wear additives that reduce engine wear.
- Turbo Approved; Provides excellent protection to critical turbo unit components

HYDRÁULIC OIL



HYDRAULIC OIL are formulated with highly refined base oil, detergents, dispersants, corrosion inhibitors, antiwear agents and extreme pressure and foam suppressant.

HYDRAULIC - ISO 32, 46, 68

HYDRAULIC OILS are environmentally sensitive products. These fluids are formulated using severely hydrotreated highly saturated base stocks and a virtually nontoxic zinc-free antiwear additive system. Exhibit excellent thermal stability and are inherently biodegradable due to the high saturate level of the base oils 8,000 hours.

BENEFITS

- Excellent Oxidative and Thermal Stability
- Very good low temperature properties
- High natural viscosity index
- Very good natural lubricity
- Low volatility characteristics
- Very good hydrolytic stability
- Very low foaming tendencies
- Excellent demulsibility
- Inherent biodegradable, OECD Test Method 301B
- Environmentally sensitive, virtually nontoxic additive system, OECD Test Method 203 1-12
- Longer fluid life, extended service intervals
- Designed using EPA Green Chemistry

TYPICAL PHYSICAL CHARACTERISTICS

SPECIFICATIONS / ESPECIFICACIONES	ASTM	ISO 32	ISO 46	ISO 68
API GRAVITY, 60/60O F	D-1298	33.5	32.5	32.2
VISCOSITY MM2 /S @ 40O C	D-445	32.0	.0	8.0
MM2/S @ 100O C		5.3	.	8.6
VISCOSITY INDEX	D-2270	00	00	00
OXIDATION	D-943	7600 +	7600 +	7600 +
COPPER CORROSION	D-130	1A	1A	1A
FOA	D-892	PASS	PASS	PASS
FLASH POINT, °C	D-92	220	225	232
POUR POINT, °C	D-97	-30	-28	-26
COLOR, ASTM	D-1500	1.5	1.5	1.5



HYDRÁULIC OIL

PREMIUM AW HYDRAULIC - ISO 32, 46, 68, 100, 150

PREMIUM AW HYDRAULIC OILS are premium-quality anti-wear hydraulic oils with superior stability, deigned to meet the rigorous requirements of most major manufacturers and users of hydraulic equipment. It has an outstanding rust protection, low deposit formation, good demulsibility, rapid release of entrained air, oxidation resistance, low pour points and good anti-foam properties 3,000 hour.

PREMIUM AW HYDRAULIC OILS contain an anti-wear agent that helps minimize wear in high-speed, highpressure vane and gear pumps.

PREMIUM AW HYDRAULIC OILS are recommended for use in vane, gear and piston pumps operated above 3000 psi. These products are excellent to reduce vane and gear pump wear and greatly extend the life of systems operating at high loads, speeds and temperatures.

TYPICAL PHYSICAL CHARACTERISTICS

SPECIFICATIONS / ESPECIFICACIONES	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150
VISCOSITY @ 100 °C	5.3	6.9	8.9	11.1	14.5
VISCOSITY @ 40 °C	31.3	47.3	69.5	100	150
VISCOSITY INDEX	100	102	101	95	95
POUR POINT	-30	-30	-35	-15	-15
VISCOSITY CST@100C	1.0	1.0	1.5	1.5	2.5

BENEFITS

- Low Foaming

- Extended system life
- Long-term thermal stability
- Long-term hydrolytic stability
- Superior demulsibility
- Protection against wear, rust and corrosion
- Excellent oxidation resistance over long service periods





HIGH PERFORMANCE | HYDRAULIC - ISO 32, 46, 68,100

HYDRAULIC OILS are made to be used in a wide variety of applications where moderately inhibited oils are required.

HYDRAULIC OILS are suitable in pump, compressor and circulating systems, 5000 hours.

BENEFITS

- Exhibit outstanding high temperature performance providing an extra margin of equipment protection.
- Excellent oxidation resistance and thermal stability properties that could extend oil and filter change intervals and help to provide exceptionally clean systems and trouble-free operation.
- High level of anti-wear properties and excellent film strength characteristics can lead to exceptional equipment performance
- Work well in systems contaminated with small amounts of water, however, separate large amounts of water easily.

TYPICAL PHYSICAL CHARACTERISTICS

SPECIFICATIONS / ESPECIFICACIONES	ISO 32	ISO 46	ISO 68
SAE GRADE APPROX.	10	20	20
API GRAVITY	22.5	22.0	22.0
FLASH POINT C.	200	200	210
VISCOSITY CST@40C	28.8	42.6	63.0
RUST TEST	PASS	PASS	PASS
VISCOSITY INDEX MINIMUM	95	95	95
POUR POINT, C	-12	-12	-9



TRACTOR OIL

TRACTOR OIL, which serves as a transmission, wet brake, power take-off and final drive lubricant. Tractor oil is formulated using select base oils and the most modern additives, providing maximum frictional properties for increased equipment life and reduced squawk and chatter from power take-off and wet brake systems.

TRACTOR OIL is fully inhibited against rust, oxidation, corrosion, and foaming. It provides maximum anti-wear protection and is compatible with commonly used seal materials. It has a low pour point and a high viscosity index for top performance in both high and low temperature-operating conditions of extreme severity.

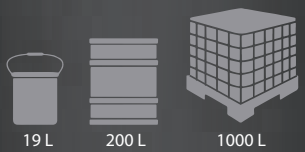
BENEFITS

- Meets or exceeds fluid performance requirements of most OEM's, maintaining efficiency and reliability, minimizing overall operating costs.
- Special additives protect metal surfaces against wear and scuffing, maximizing equipment life.
- Can replace multiple products generating low inventory cost and free up shelf space.
- Protects highly finished precision parts against corrosion and rust when operating in humid conditions.
- Allows a quiet and efficient action of brakes and transmission.
- Formulated to keep metal parts free of varnish and sludge deposits that could result in premature breakdown.

TYPICAL PHYSICAL CHARACTERISTICS

SPECIFICATIONS / ESPECIFICACIONES	
GRAVITY, API	28
FLASH POINT, °F	401 (205)
VIS, CST @ 40°C	60
VIS, CST @ 100°C	9.2
VIS, SUS @100 °F	272
VIS, SUS @210 °F	57.8
VISCOSITY INDEX	134
TBN, MG KOH/G	10
POUR POINT, ° F (°C)	-40 (-40)
COPPER CORROSION	1A





GEAR OIL GL-5

GEAR OIL GL 5 - 80W-90, 85W-140

GEAR OIL GL-5 are top of the line heavy duty gear oils designed around a modern Sulfur-Phosphorus extreme pressure additive system and as such can be used with confidence in any gear system requiring API MT1, GL-5, GL-4, GL-3 or EP.

GEAR GL-5 meets or exceeds the following specifications: GL-4, GL-5, MIL-L-2105D, MIL-L-2105E, Mack GO-J and API MT1.



BENEFITS

- Extended gear and bearing life due to minimal deposits.
- Longer seal life.
- Increased load carrying capability.
- Reduced maintenance costs and longer equipment life.
- Reduced wear and longer component life.
- Improved startability.
- Minimum leakage and reduced contamination.

TYPICAL PHYSICAL CHARACTERISTICS

SPECIFICATIONS / ESPECIFICACIONES	80W90	85W140
GRAVITY, API	26.7	25.6
FLASH POINT, °F	428 (220)	437 (225)
VIS, CST @ 40°C	139	308
VIS, CST @ 100°C	14.2	24.7
VISCOSITY INDEX (MIN)	102	98
POUR POINT, °F	-27 (-33)	-11 (-24)
COPPER CORROSION	18	18



DRIVE TRAIN FLUIDS - SAE 10W, 30, 50

DRIVE TRAIN FLUIDS are made for use in transmissions, final drive, a HD hydraulic systems requiring a fluid meeting Caterpillar TO-4 or Allison C4 requisites.

BENEFITS

- Frictional control helps prevent clutch slippage and offers efficient action of transmission and brakes.
- Help protect metal surfaces against scuffing and wear even under severe operating conditions.
- Excellent compatibility with seals, O-rings.
- Maximum service life for the oil.
- Formulated to keep metal parts clean and free of varnish and sludge deposits.
- Protects highly finished precision parts against corrosion and rust, during seasonal shutdown periods or when operating in humid conditions



CARACTERÍSTICAS FÍSICAS TÍPICAS

SPECIFICATIONS / ESPECIFICACIONES	10W	30W	50W
GRAVITY, API	30.3	29.2	26.6
FLASH POINT, °F	430	460	470
VIS, CST @ 40°C	40.6	90.0	189.0
VIS, CST @ 100°C	6.2	10.3	17.0
VISCOSITY INDEX (MIN)	98	95	95
POUR POINT, °F	-20	-8	+5

GEAR OIL GL-5

SYN GEAR OIL 75W-90, 80W-140

SYN GEAR OILS are high performance gear synthetic oils which exhibit excellent extreme pressure characteristics when operated under severe load conditions.

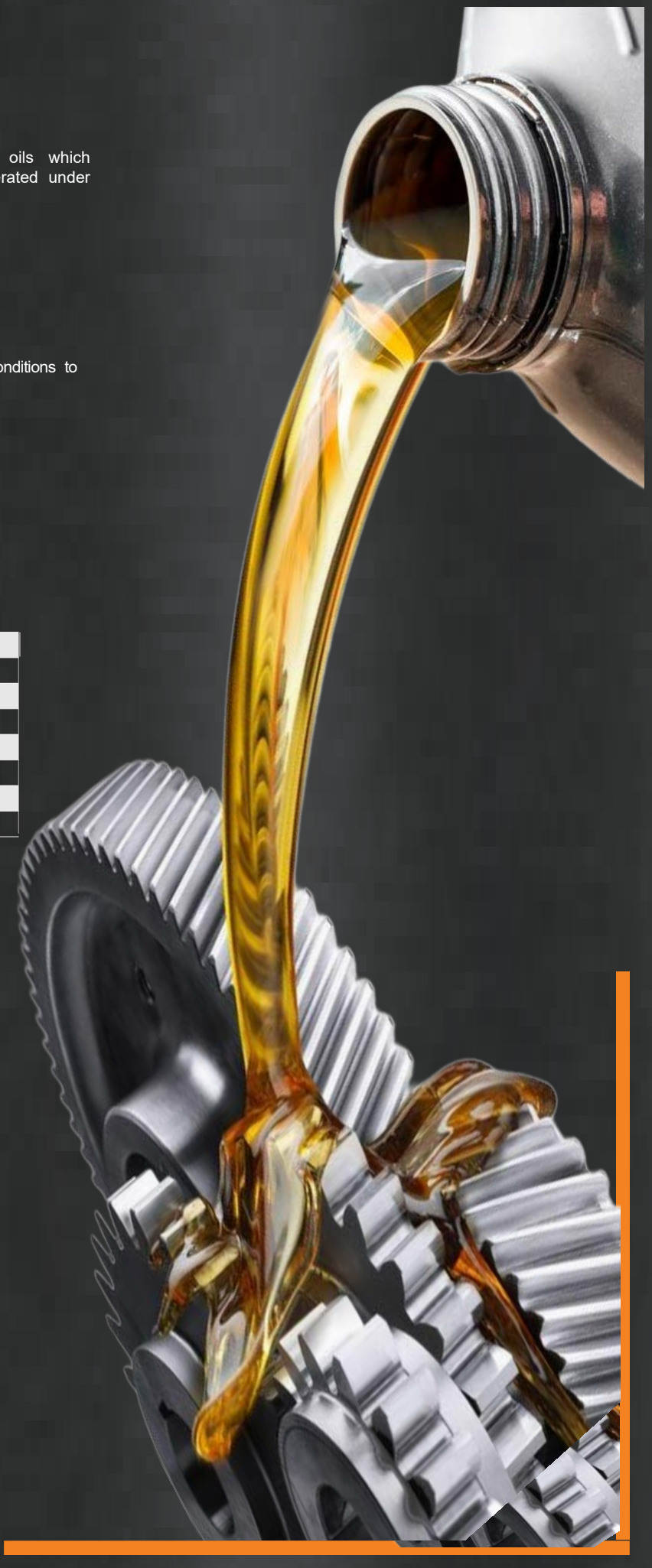
BENEFITS

- Extended gear and bearing life due to minimal deposits.
- Longer seal life.
- Increased load carrying capability.
- Reduced maintenance costs and longer equipment life.
- Retains viscosity and film strength under severe operating conditions to prevent wear.
- Reduced wear and longer component life.
- Improved fuel economy and reduced operating costs.
- Reduced wear and ease of start-up.
- Maintains film strength for reliable lubrication.
- Minimum leakage and reduced contamination.

TYPICAL PHYSICAL CHARACTERISTICS

SPECIFICATIONS / ESPECIFICACIONES	75W90	80W140
GRAVITY, API	25.4	23.6
FLASH POINT, °F	400 (205)	410 (210)
VIS, CST @ 40°C	103.5	310
VIS, CST @ 100°C	14.9	31.2
VISCOSITY INDEX (MIN)	150	139
POUR POINT, °F	-50 (-46)	-36 (-38)
COPPER CORROSION	18	18





INDUSTRIAL

INDUSTRIAL OILS are premium quality lubricants with superior stability, designed to meet the heavy-duty demands of a variety of Industrial applications.

GEAR COMP ISO 150, 220, 460

GEAR COMPOUNDS are designed to meet the heavyduty demands of a variety of industrial gear applications including those operating under such severe conditions as critical sliding velocities and shock loading that may occur under certain loading situations. They are created from high quality base oils with the perfect additive package to provide the best combination of performance properties, such as extreme pressure and oxidation resistance, required in difficult industrial applications.

BENEFITS

- Help maintain clean gear and bearing surfaces, minimizing deposits which interfere with effective lubrication.
- Effective EP system minimizes wear rates and maintains efficient transfer of power. Good water separation and effective rust inhibitors protect surfaces against rust and corrosion. High thermal stability additive system minimizes the formation of high temperature compounds which can be corrosive to bearing materials.
- Minimize oil oxidation, limiting viscosity increase and promoting long drain intervals.
- Minimize oil oxidation, limiting viscosity increase and promoting long drain intervals.

TYPICAL PHYSICAL CHARACTERISTICS

SPECIFICATIONS / ESPECIFICACIONES	ISO 150	ISO 150	T 460
VISCOSITY @ 40° C, CST	145	210	400
VISCOSITY @ 100° C, CST	14	19	24
VISCOSITY INDEX	95	97	95
POUR POINT, °C	-20	-15	-15
TIMKEN OK LOAD, LBS.	65	65	65
FZG, PASS STAGES	12	12	12
FOUR BALL WEAR	0.34	0.34	0.34
FOUR BALL EP, WELD POINT, KG	250	250	250
FOUR BALL EP, LWI KG	45	45	45



INDUSTRIAL GEAR EP – ISO 150, 220, 320, 460

INDUSTRIAL GEAR EP are multipurpose industrial gear lubricants made with highly paraffinic base stocks and modern performance additives. Provide extreme pressure protection as well as anti-wear protection. Offer superior rust and oxidation control, corrosion control and demulsibility. Have high load carrying capacity, separate quickly from water and are exceptionally stable over a wide range of temperatures.

INDUSTRIAL GEAR EP are intended for use in enclosed gear drives and wherever an AGMA extreme pressure lubricant is required. INDUSTRIAL GEAR meet or exceed the following specifications: U.S. Steel 224, AGMA 250.04 and 9005 and Cincinnati Milacron.

BENEFITS

- Effective corrosion Inhibition
- Excelent oxidation and thermal stability
- Outstanding load carrying and anti-friction characteristics
- Wide range of viscosities
- Resistant to micro-pitting
- Water shedding properties
- Load Carrying Capacity
- Lead-free
- Extreme Pressure Properties

TYPICAL PHYSICAL CHARACTERISTICS

SPECIFICATIONS / ESPECIFICACIONES	ISO 150	ISO 220	ISO 320	ISO 460
AGMA GRADE	4EP	5EP	6EP	7EP
GRAVITY, API	28.3	27.2	26.9	26.1
FLASH POINT, F	410	420	435	445
VIS, CST @ 40C	150	219	320	450
VIS, CST @ 100C	14.8	18.8	23.9	29.9
VISCOSITY INDEX (MIN)	98	96	95	95
POUR POINT, F	-10	0	+5	+10
TIMKEN OK LOAD, LBS	65	65	65	65
LOAD WEAR INDEX ASTM D5182	250 12+	250 12+	250 12+	250 12+





INDUSTRIAL

INHIBITED TRANSFORMER OIL

INHIBITED TRANSFORMER OIL is a inhibited electrical insulating oil manufacted from highly refined mineral oils. It is formulated eith an oxidation inhibitor to minimize formation of acids and sludge in service to minimize oil deterioration and extend the operating life of the immersed components.

BENEFITS

- Extended oil life
- System efficiency
- Transformer protection
- Low pour point and low viscosity
- Excellent oxidation stability



TYPICAL PHYSICAL CHARACTERISTICS

SPECIFICATIONS / ESPECIFICACIONES	METHOD	
KINEMATIC VISCOSITY AT 0 °C	ASTM D 445	59
KINEMATIC VISCOSITY AT 40 °C	ASTM D 445	9
KINEMATIC VISCOSITY AT 100 °C	ASTM D 445	2.1
FLASHPOINT COC	ASTM D 92	150
POURPOINT	ASTM D 97	-56
ANILINE POINT	ASTM D 611	69
APPERARANCE	ASTM D1524	CLEAR & BRIGHT
DENSITY AT 15 °C	ASTM D 1298	889
INTERFACIAL TENSION @ 25 °C	ASTM D 971	40
CORROSIVE SULPHUR	ASTM D 1275	NOT CORROSIVE
WATER CONTENT	ASTM D 11533	<29
OXIDATION INHIBITOR CONTENT	ASTM D 1473	COMPLIES
DIELECTRIC BREAKDOWN VOLTAGE	ASTM D 1816	
OIL AS RECEIVED	ASTM D 1816 (VDE)	39
AFTER TREATMENT	ASTM D 1816 (VDE)	>71
DIELECTRIC BREAKDOWN VOLTAGE IMPULSE	ASTM D 3300	>305
DIELECTRIC BREAKDOWN FACTOR (DDF) AT 100 °C	ASTM D 924	0.1
OXIDATION STABILITY @ 72 HRS / 164 HRS SLUDGE	ASTM D 2440	<0.01 / 0.01
TOTAL ACID NUMBER		<0.01 / 0.1
OXIDATION STABILITY (RPVOR)	ASTM D 2112	238
GASSING TENDENCY	ASTM D 2300	COMPLIES

TURBINE OIL T32, T46

TURBINE OILS are a premium quality ash-less oils designed for outstanding performance in natural gas or steam turbines, air compressors, circulating systems and non-EP gear boxes. They exhibit excellent thermal and oxidative stability for robust, long-term performance without sludging or thickening. They exceed the rigorous performance requirements of Cincinnati-Milacron's benchmark specifications for R&O Oils: P-38 and P-45.

BENEFITS

- Extended oil life
- System efficiency
- Transformer protection
- Low pour point and low viscosity
- Excellent oxidation stability

TYPICAL PHYSICAL CHARACTERISTICS

SPECIFICATIONS / ESPECIFICACIONES		ASTM	T 32	T 46
API GRAVITY 60/60 °F		D-1298	29.9	29.8
SPECIFIC GRAVITY, G/ML @ 60° F		D-1298	0.877	0.877
VIS, CST @ 40°C		D-445	32.2	44.0
VIS, CST @ 100°C		D-445	5.4	6.6
VISCOSITY INDEX		D-2270	101	101
POUR POINT,°C (°F)		D-92	433	433
FLASH POINT,°C (°F)		D-97	-20	-15
OXIDATION TEST		D-943	7500+	7500+
FOAM		D-982	20/0	30/0
DEMULSIBILITY, MINUTES		D-1401	10	15
RUST TEST	DISTILLED WATER	D-665B	PASS	PASS
	SALT WATER	D-665B	PASS	PASS



TRANSMISION

SYNTHETIC TRANSMISSION FLUID SAE 50

Synthetic Transmission Fluid SAE 50 recommended for service fill of heavy duty manual transmissions, such as those manufactured by Eaton, Meritor, and Mack. It is produced from synthesized hydrocarbon base fluids which have excellent thermal and oxidation stability, a high natural viscosity index, and a low pour point.

SYN TRANSMISSION FLUID has an outstanding low temperature flow properties and natural high viscosity index that allows an exceptional all-climate, year-round performance in heavy duty truck transmissions. Its use permits easy shifting in extremely cold weather and minimal drag and gear wear during startup.

BENEFITS

- Demonstrated field performance for on-highway drain intervals of 500,000 miles and more.
- Provides extremely broad operating temperature ranges when related to conventional mineral oil based lubricants
- Has unique additive package that can protect gears without using the “active sulfur” agents commonly found in automotive axle oils, resulting in little to no corrosion and long life for copper-containing parts, such as oil coolers, bushings, and thrust washers.
- Excellent thermal and oxidation stability provided by the synthetic hydrocarbon base oil used in this product.

TYPICAL PHYSICAL CHARACTERISTICS

SPECIFICATIONS / ESPECIFICACIONES	SYNTHETIC SAE 50
VIS, CST @ 40°C	199
VIS, CST @ 100°C	18.5
VISCOSITY INDEX	103
API GRAVITY	26
POUR POINT, °F	-27
FLASH POINT, °C,	266
FZG SCUFF TEST, PASSING LOAD STAGE	12



MP ATF

MP ATF OIL is a true universal automatic transmission fluid, d esigned to help keep your transmission components protected so that they can go on working efficiently.

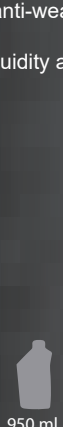
MP ATF is recommended for applications where fluids meeting the performance requirements of DEXRON III®, and Ford MERCON® are required. This product may also be used for applications calling for a fluid which meets the requirements of DEXRON II-E® DEXRON II-D® DEXRON II®, Ford (M2C138-CJ) and (M2C166-H), Caterpillar TO-2 or Allison C-3, C-4. It is an excellent service fill for Mercedes Benz US and Ford late model C-4, C-6.

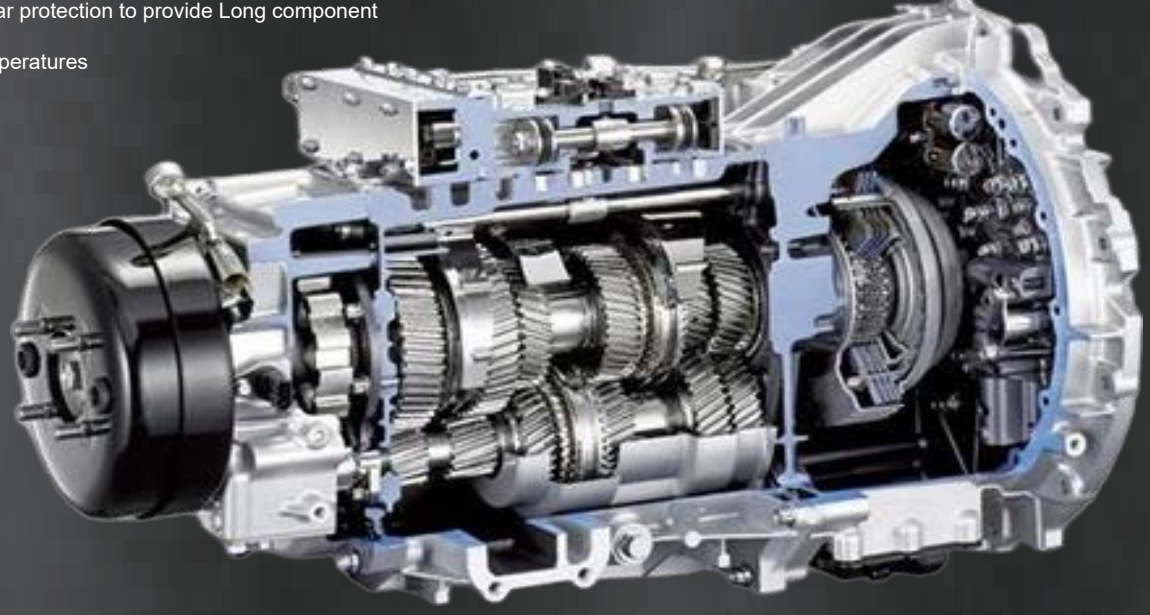
BENEFITS

- Consistent, reliable, smooth and trouble free operation of automotive transmission systems.
- Exceptionally high oxidation resistance.
- Dependable anti-wear and gear protection to provide Long component lift.
- Excellent oil fluidity at low temperatures

TYPICAL PHYSICAL CHARACTERISTICS

SPECIFICATIONS / ESPECIFICACIONES	ATF MD-3
GRAVITY, API	31.2
GAL	7.2
APPEARANCE	RED
VIS, CST @ 40°C	33.86
VIS, CST @ 100°C	7.21
VIS, CPS @ -40°C	16200
VISCOSITY INDEX	185
POUR POINT,°C (°F)	-45 (-49)
FLASH POINT,°C (°F)	187 (369)





GREASES LITHIUM

GREASES are high quality multipurpose greases of industrial and transportation services, formultaed from high viscosity base oil.

RED / BLUE HD EP2 GREASE is a high quality multipurpose grease for industrial and transportation service, formulated from high viscosity base oil and lithium complex thickener. This heavy-duty grease offers high load capability with a Timken OK Load of 80 lbs. and contains tackiness additive to enhance retention on lubricant parts. These properties help form an effective seal to
help minimize bearing contamination and stay in-place while in service.

RED / BLUE HD EP2 GREASE contains high performance extreme pressure additives, offers Anti-wear protection, a strong Extreme Pressure package, rust and oxidation inhibitors and tackifiers. It offers good water resistance and exhibits good pumpability even at lower temperatures. It is also NLGI GC-LB certified for use as a multi-purpose automotive wheel bearing and chassis grease. It a very wide operating temperature range allowing for excellent high temperature protection. It is recommended for high temperature, heavy duty greasing applications of bearings, rolling elements, antifriction bearings, high temp wheel bearings/disc brakes, electric motor bearings, throw-out bearings, universal joints, fifth wheels and more. This grease is an excellent choice for slow to moderate speed bearing applications in agricultural, automotive, construction, cement, industrial, marine, mining, oil

TYPICAL PHYSICAL CHARACTERISTICS

SPECIFICATIONS / ESPECIFICACIONES	METHOD / MÉTODO	MP EP2 GREASE
NLGI GRADE	ASTM D-217	2
WORKED PENETRATION @ 25° C	ASTM D-217	265 - 295
THICKENER TYPE	DATA	LITHIUM COMPLEX
TEXTURE	VISUAL	TACKY
COLOR	VISUAL	RED
DROPPING POINT	ASTM D-2265	450 - 600OF
VISCOSITY @ 40° C, CST	ASTM D-445	-
VISCOSITY INDEX	ASTM D-2270	90 - 100
TIMKEN OK LOAD	ASTM D-2509	70 - 90 LBS
4-BALL WELD LOAD	ASTM D-2596	500+ KG
WATER SPRAY-OFF, % WT	ASTM D-4049	7.0 - 10.0
COPPER STRIP CORROSION	ASTM D-4048	1B
RUST PREVENTION	ASTM D-1743	PASS



MOLY GREASE

HD 3% MOLY GREASE is formulated with a special additive package which insures high film strength, extreme pressure (EP) and anti-wear properties. Exhibits good pumpability even at lower temperatures, and is water washoff resistance. HD 3% MOLY GREASE is enhanced with Moly (Molybdenum Disulfide) to provide protection against seizure under high loads and severe shock load conditions.

HD 3% MOLY GREASE is a perfect lubricant for heavy duty construction, industrial, and mining applications. Is created to be used in heavy-duty applications where sliding or oscillating motion is present as in bearings, steering linkage and fifth wheel assemblies.

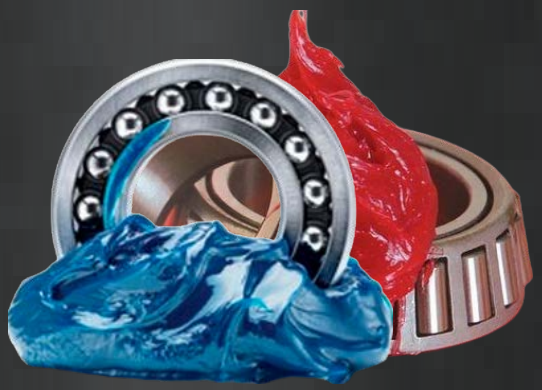
BENEFITS

- Resists softening and protects parts from wear.
- Long Life.
- Extraordinary Performance at High and Low Temperatures
- Resists oxidation and protects metal against rust.
- Great Pumpability and Water Washoff Resistance.
- Excellent Shear and Mechanical Stability.

TYPICAL PHYSICAL CHARACTERISTICS

SPECIFICATIONS / ESPECIFICACIONES	METHOD / MÉTODO	3% MOLY GREASE
NLGI GRADE	ASTM D-217	2
WORKED PENETRATION @ 25° C	ASTM D-217	265 - 295
THICKENER TYPE	DATA	LITHIUM COMPLEX
TEXTURE	VISUAL	TACKY
COLOR	VISUAL	N/A
DROPPING POINT	ASTM D-2265	450 - 600OF
VISCOSITY @ 40° C, CST	ASTM D-445	200.0
VISCOSITY INDEX	ASTM D-2270	90 - 100
TIMKEN OK LOAD	ASTM D-2509	50 - 60 LBS
4-BALL WELD LOAD	ASTM D-2596	315 - 400 KG
WATER SPRAY-OFF, % WT	ASTM D-4049	3.0 - 7.0
COPPER STRIP CORROSION	ASTM D-4048	1B
RUST PREVENTION	ASTM D-1743	PASS





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Lubricants

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