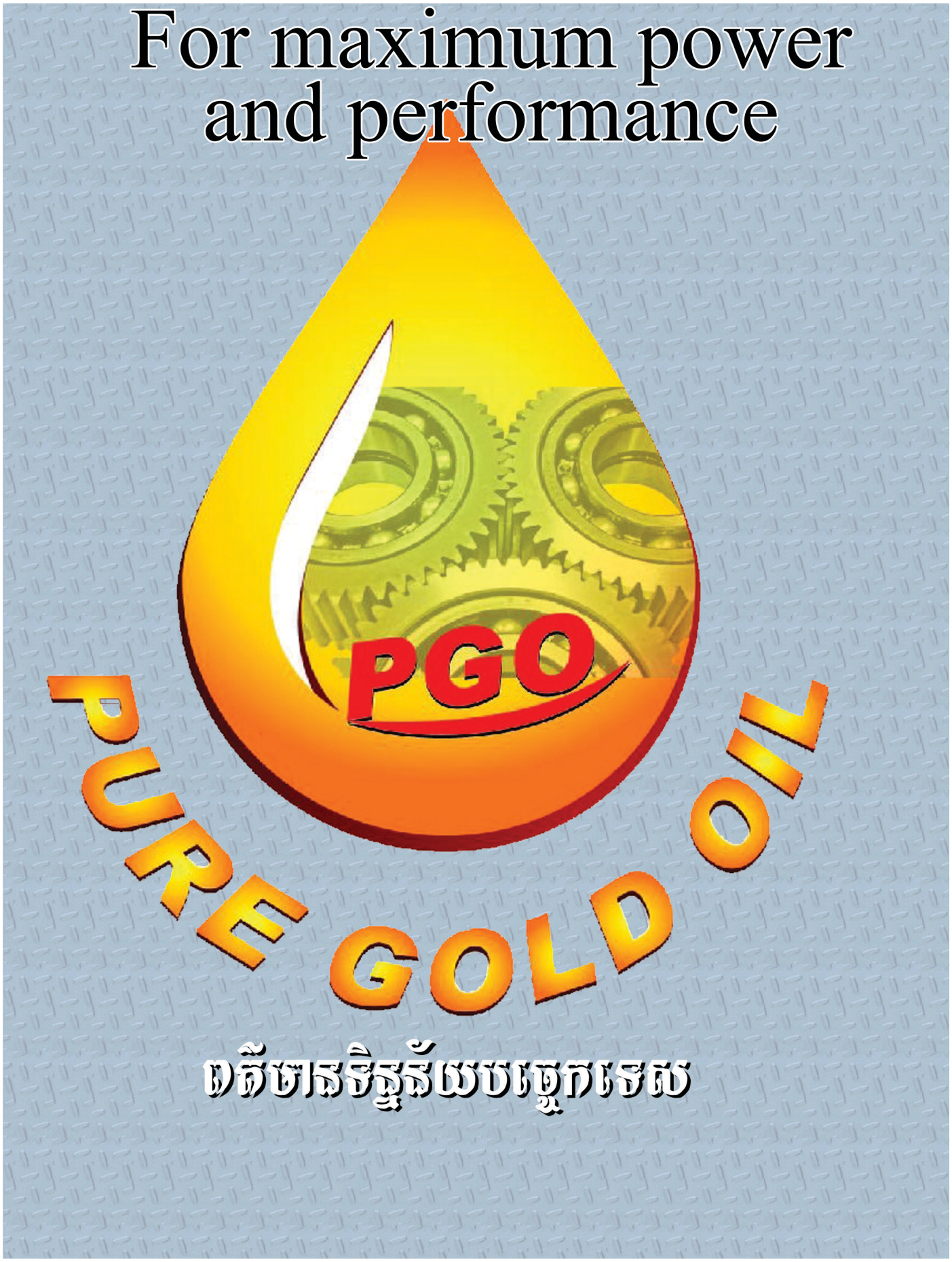

Pure Gold Oil

Pure Gold is a leading player in oil Space, with a vision to be an integrated multinational energy organization driving international growth with excellent suite of development projects spread across different continents.

With a few years of commissioning of the refinery in Sharjah's Hamriyah Free Zone, Pure Gold in now a company with firmly established six strategic business units: Oil Trading & Bunkering, Oil Refining, Grease, Lubricants and Transformer Oils Manufacturing, Oil Storage Terminals, Bitumen Manufacturing and Shipping & Logistics. All these units support each other and make Pure Gold a well integrated conglomerate.

Pure Gold is a leading manufacturer of all types of lubricants such as, Automotive, industrial and marine lubricants. With state of the art blending facility equipped with the latest production and laboratory equipment producing high quality lube oil; Pure Gold is also engaged in trading of lubricants additives and production of automotive, marine and industrial lubricant and base oils. All these products pass through a very stringent quality control.
Its extensive range of quality products includes its ultimate-performance synthetic lubricants, which offer outstanding protection, long lubricant life and efficiency.

Our Product Range

AUTOMOTIVE

Blended from highly refined base stocks and specially selected additives to meet special characteristics and performance levels.

- Passenger vehicle lubricants
- Heavy duty diesel oil
- Two stroke motor oil
- Railroad diesel oil
- Drive line
- Coolants
- ATF Dexron II, III
- Brake Fluid Dot-3 and Dot-4

INDUSTRIAL

Premium grade for longer oil life with smooth operation and outstanding thermal stability at very high temperature.

- Hydraulic oils
- Industrial gear oils
- Turbine oils
- Compressor oils
- Bearing/Circulating oils
- Textile oils
- Heat transfer oil
- Machine tool oils
- Metal working fluids

MARINE

High performance, providing excellent lubrication and helps prevent deposits from forming in the combustion chamber.

- Two stroke outboard oil
- Medium speed trunk piston diesel oil

Premium Mono Grade Engine Motor Oil

GRADE

SAE 30 , 40 , 50

INTRODUTION

MOTOR OIL 30, 40,50 are blended from highly refined base stocks with high viscosity index and additives that impart detergent, dispersant, anti-oxidant and anti-wear properties.

APPLICATION

Are recommended for use as crankcase oils for older type four stroke gasoline engines, stationary diesel engines, e.g. Pumpset Oil, Genset Oil and in older version of automotive diesel engines, particularly for commercial fleet operation.

PERFORMANCE LEVEL & BENEFITS

Meet the performance level of API CC , CC/SC , CD/SF , CF , CF/SF , CF-II/SF , SF/CC , SJ/CF , IS:13656-2002 , EPL-1/EDL-1 , VW500.00 , 501.01 , 505.00 , ACEA A3-98 , B3-98 , BMW Special Oil MB 229.1.

- Maximum power and fuel economy
- Longer oil drains intervals
- Prolongs engines life
- Lowest maintenance cost
- Lowest oil consumption
- Easy start-up
- Highest thermal stability
- Widest temperature performance

Typical Physical Characteristics

SAE Viscosity Grade	30	40	50
Density @ 15°C , kg/cu m	0.886	0.895	0.898
Kinematic Viscosity @ 40°C , cSt	100	151	220
Kinematic Viscosity @ 100°C , cSt	11.2	14.8	19.1
Viscosity Index	98	97	97
Flash Point , COC , °C	226	236	242
Pour Point , °C	-18	-15	-9

Premium Multigrade Engine Oil

GRADE

0W 30 , 0W 40 , 5W 30 , 5W 40 (Fully Synthetic)

INTRODUCTION

Are blended from highly refined base stocks and specially selected additives to meet special characteristics and performance levels, like excellent thermal and oxidation stability, protection against rust, corrosion and wear. They have very high viscosity index to provide ease in cold starting and ensure adequate oil film thickness at extreme temperature to eliminate seasonal oil change, reduce oil consumption, and keep the engine clean.

APPLICATION

Are recommended for use in gasoline and diesel engines operating over wide range of temperatures throughout the year.

PERFORMANCE LEVEL & BENEFITS

Meet the performance level of API SN , SM , MIL-L-2014 B and VW500.00 , 501.01 , 505.00 , ACEA A3-98 , B3-98 , BMW Special Oil MB 229.1.

- Exceptional control of oil consumption
- Efficient resistance to oxidation, low temperature sludge and high temperature deposits
- Reduced maintenance costs through extended engine life
- Reinforced thermal stability
- Excellent antifriction and engine cleaning properties
- Highly effective control over wear, rust and corrosion

Typical Physical Characteristics

SAE Viscosity Grade	0W-30	5W-30	0W-40	5W-40
Density @ 15°C , kg/cu m	0.849	0.848	0.848	0.851
Kinematic Viscosity @ 40°C , cSt	65.45	66.4	87.6	76.3
Kinematic Viscosity @ 100°C , cSt	12.5	12.1	15.9	13.8
Viscosity Index	196	183	195	187
Flash Point , COC , °C	216	228	214	224
Pour Point , °C	-42	-39	-42	-39
TBN, mgm KOH/gm	8.3	8.3	8.3	8.3

Premium Multigrade Engine Oil

GRADE

10W 30 , 10W 40 , 15W 40 , 20W 40 , 20W 50 (Semi Synthetic)

INTRODUCTION

Are blended from highly refined base stocks and specially selected additives to meet special characteristics and performance levels, like excellent thermal and oxidation stability, protection against rust, corrosion and wear. They have very high viscosity index to provide ease in cold starting and ensure adequate oil film thickness at extreme temperature to eliminate seasonal oil change, reduce oil consumption, and keep the engine clean.

APPLICATION

Are recommended for use in gasoline and diesel engines operating over wide range of temperatures throughout the year.

PERFORMANCE LEVEL & BENEFITS

Meet the performance level of API SN , SM , VW500.00 , 501.01 , 505.00 , ACEA A3-98 , B3-98 , BMW Special Oil MB 229.1.

- Lengthens oil changes period
- Prolongs engine life
- Reduced maintenance costs through extended engine life
- Reduced running costs through improved oil and fuel efficiency
- Highest thermal stability
- Superior antifriction and engine cleaning properties

Typical Physical Characteristics

SAE Viscosity Grade	10W-30	10W-40	15W-40	20W-50
Density @ 15°C , kg/cu m	0.871	0.874	0.885	0.892
Kinematic Viscosity @ 40°C , cSt	74	91	98.8	142
Kinematic Viscosity @ 100°C , cSt	12.2	14.2	14.84	18.5
Viscosity Index	164	162	157	147
Flash Point , COC , °C	220	220	224	236
Pour Point , °C	-33	-33	-27	-24
TBN, mgm KOH/gm	8.3	8.3	8.3	8.3

Super Multigrade Engine Oil

GRADE

15W 40 , 20W 40 , 20W 50

INTRODUCTION

Are blended from highly refined base stocks and specially selected additives to meet special characteristics and performance levels, like excellent thermal and oxidation stability, protection against rust, corrosion and wear. They have very high viscosity index to provide ease in cold starting and ensure adequate oil film thickness at extreme temperature to eliminate seasonal oil change, reduce oil consumption, and keep the engine clean.

APPLICATION

Are recommended for use in gasoline and diesel engines operating over wide range of temperatures throughout the year.

PERFORMANCE LEVEL & BENEFITS

Meet the performance level of API CC/SC , SL/CF , SJ/CF , SG/CD , SF/CC , CJ-4/SM , CI-4/SL , CH-4/SJ , CG-4/SH , CF-4/SJ , CF/SF , CF-II/SF MIL-L-2014 B IS:13656-2002 , E-PL1/E-DL1 , VW500.00 , 501.01 , 505.00 , ACEA A3-98 , B3-98 , BMW Special Oil MB 229.1.

- Very good control of oil consumption
- Excellent fuel economy and better cold starting
- Suoerior catalyst and turbo/multivalve compatibility
- Reinforced thermal stability
- Extended antifriction and engine cleaning properties
- Very effective control over wear, rust and corrosion

Typical Physical Characteristics

SAE Viscosity Grade	15W-40	20W-50
Density @ 15°C , kg/cu m	0.885	0.892
Kinematic Viscosity @ 40°C , cSt	98.8	142
Kinematic Viscosity @ 100°C , cSt	14.84	18.5
Viscosity Index	157	147
Flash Point , COC , °C	224	236
Pour Point , °C	-27	-24
TBN, mgm KOH/gm	6.5 – 9.3	6.5 – 9.3

2 Stroke Motor Oil

GRADE

Two stroke engine oil

INTRODUCTION

2T Oil is low smoke semi-synthetic two stroke engine oil developed to meet the critical requirements of two stroke engine manufactured by all leading auto makers. It is blended from selected base stocks and special additives to minimize spark plug fouling and pre-ignition, prevent rusting, minimize deposit formation and provide protection against seizure, scuffing and wear. It is specifically formulated to give additional of lower consumption of fuel. It contains diluents for easy mixing with gasoline and is dyed green for easy identification.

APPLICATION

2T Oil is recommended for lubrication of scooters, auto rickshaws, motorcycles and mopeds operating on two stoke engines. The recommended dosage is 20ml of oil per liter of petrol.

PERFORMANCE LEVAL & BENEFITS

2T Oil meet the performance level of Jaso FC Specification. API TC , CEC TSC-3 , TISI

- Low exhaust smoke
- Maintains engine cleanliness
- Minimises spark plug fouling
- Reduces port deposits and ring sticking
- Prevents seizure and scuffing
- Is easily pump able by oil injection system
- Ensures reduced oil consumption

Typical Physical Characteristics

SAE Viscosity Grade	30
Density @ 15^{o}C , kg/cu m	0.860
Kinematic Viscosity @ 40^{o}C , cSt	70
Kinematic Viscosity @ 100^{o}C , cSt	9.5
Viscosity Index	115
Flash Point , COC , ^{o}C	200
Pour Point , ^{o}C	-21
TBN, mgm KOH/gm	2.5
Sulphates Ash, % by Weight, Max	0.25

4 Stroke Motor Oil

GRADE

4T 20W-40 , 4T 20W-50

INTRODUCTION

Are high performance multigrade 4 stroke engine oil that are blended from highly refined base stocks and special additives to meet the high temperature operating condition in air cooled 4 stroke two wheelers with excellent oxidation stability and control the sludge and varnish formations. The 4 stroke engine oil also provide protection against wear, long engine life, higher fuel efficiency and outstanding engine cleanness.

APPLICATION

Are recommended as multipurpose engine oils for the lubrication of 4 stroke two wheelers of all models of motorcycles, scooters and auto rickshaws operating on petrol and CNG/LPG.

PERFORMANCE LEVAL & BENEFITS

Meet the performance level of API SL/CF , JASO T 903 (MA2 Specification). Cummins, MWM Deutz*, Rolls Royce (Ulstein Bergen), MTU*MAN , Wartsila*, Perkins*, Caterpillar, Waukesha (0.35% ash minimun)*.

- Outstanding oxidation and nitration resistance provide protection against bearing corrosion
- Over engine cleanliness contributes to low engine wear, long component life, maintenance of power output, more operational stability and lower servicing cost
- Balanced sulfated ash level helps prolong the life of valves and spark plugs
- Low phosphorus level ensures compatible with engines equipped with emission catalysts

Typical Physical Characteristics

SAE Viscosity Grade	20W-40	20W-50
Density @ 15°C , kg/cu m	0.885	0.892
Kinematic Viscosity @ 40°C , cSt	98.8	142
Kinematic Viscosity @ 100°C , cSt	14.84	18.5
Viscosity Index	157	147
Flash Point , COC , °C	224	224
Pour Point , °C	-24	-24
TBN, mgm KOH/gm	8.3	8.3

Railroad Diesel Oil

GRADE

SAE 40

INTRODUTION

Is a zinc-free premium quality, heavy duty, lubricant designed with refined base oil and unique additive package specifically for medium speed diesel engines in use on railways requiring LMOA Generation 5 lubricants.

APPLICATION

Recommended for the recent generation of GM.EMD and General Electric diesel engines equipped with silver bearing fitted on railroad locomotives and in stationary and marine applications running on fuels with high sulphur content. Industrial applications where zinc-free oil is recommended, offshore well drilling rigs, tugs and fishing vesssels.

PERFORMANCE LEVEL & BENEFITS

API CD , US MIL-L-2014 , General Electric and General Motor-Electro Motive Division (GM-EMD) engines , General 5 , DALIAN Locomotive.

- Very high thermal behavior and excellent oxidation stability
- Exceptional protection against wear, ring sticking, rust and corrosion to ensure long life of moving parts and reduce the need for engine servicing
- Excellent detergent and dispersant qualities to keep the engine clean
- High effective TBN retention

Typical Physical Characteristics

SAE Viscosity Grade	40
Density @ 15°C , kg/cu m	0.895
Kinematic Viscosity @ 40°C , cSt	151
Kinematic Viscosity @ 100°C , cSt	14.8
Viscosity Index	97
Flash Point , COC , °C	236
Pour Point , °C	-9
TBN, mgm KOH/gm	20
Sulfated Ash, % wt	2.3

Drive Line

GRADE

GEAR OIL EP 90 , EP 140 , 80W-90 , 85W-140

INTRODUTION

Are extreme pressure automotive gear lubricants. These oil are blended from specially selected base stocks and additives to provide extreme pressure, anti-corrosion characteristics.

APPLICATION

Are recommended for passenger car, bus and highway truck for the lubrication of hypoid, spiral bevel and worm gear axle and also manual transmission for which an extreme pressure gear lubricant of this type is required.

PERFORMANCE LEVEL & BENEFITS

Meet the performance level of API service classification GL-1, GL-4, GL-5, IS:1118-1992 EP Type GL-4. US Military MIL-L-2105D, MB 235.0, MAN 342 Type M-1, DAF, Voith 3.325-339, Volvo 97310/97316, Renault.

- Outstanding demulsibility power, thermal and oxidation stability
- Exceptional protection against foaming, rust and corrosion
- Excellent compatibility with all seals to control the leakage
- Outstanding resistance to gear distress under high-speed, shock-load, high-speed, low-torque and low speed, high-torque conditions
- Right level of detergency to ensure a clean system
- Non-corrosive to steel, copper or other metals and alloys and keep the parts in first-class condition

Typical Physical Characteristics

SAE Viscosity Grade	80W-90	85W-140	90	140
Density @ 15°C , kg/cu m	0.886	0.907	0.889	0.910
Kinematic Viscosity @ 40°C , cSt	159	360	220	460
Kinematic Viscosity @ 100°C , cSt	15.5	26	19.2	31
Viscosity Index	99	95	97	95
Flash Point , COC , °C	176	220	182	226
Pour Point , °C	-27	-12	-12	-6

Coolants

PRODUCT: Radiator Coolant

GRADE: Concentrated

INTRODUCTION

Is a premium quality synthetic radiator coolant, which is free from amines, borates, silicates and phosphates. It is easily miscible with water and possesses excellent hard water stability. It has good chemical stability and exhibits high boiling point and low freezing point to take care of summer and winter.

APPLICATION

Is recommended for use in mobile and stationary automotive engines having closed loop coolant circulation systems and advised to use one part of the concentrated fluid with two parts of water (preferably Demineralised Water) in the engine radiator or as per the recommendation of OEM.

PERFORMANCE LEVEL & BENEFITS

It meet the requirement of

- JIS K-2234-1934, ASTM D 3306, JAGUAR APPROVAL, OPEL-VANXHALL QL 1301000
- IS: 5759-1994, MAN 324, BMW N 600 69, FORD ESD-M97B-49A, VOLKSWAGEN TL 774B/C
    - Efficient and lasting protection against corrosion for all engine and cooling system metals
    - Compatible with rubber hoses and seal
    - Low freezing point prevents engine block cracking at lowest temperatures
    - Prevents excessive evaporation and boiling over

Typical Physical Characteristics

Concentration	100%
Color	Blue
Density @ 15^{o}C , kg/cu m	1.128
Kinematic Viscosity @ 20^{o}C , cSt	23
Flash Point (PMCC), ^{o}C	118
Water content,% wt	2.4
Silicate Content, % wt	0.11
Freezing Point,50% v/v in distilled water, ^{o}C	-39
Freezing Point,33% v/v in distilled water, ^{o}C	-20
pH value, 50%v/v in distilled water	7.7

ATF Dextron II & III

PRODUCT: Automatic Transmission Fluid

GRADE

Type Of Dextron II and III of General Motors, USA

INTRODUCTION

Is a premium quality red coloured transmission fluid with low co-efficient of friction to meet specification of general stock fortified with carefully selected additives to impart good resistance to thermal oxidation, very low temperature flow characteristics, and excellent seal compatibility with anti-wear and anti-corrosion properties. This high viscosity index oil ensure smooth power shift operation with minimum power loss.

APPLICATION

Recommended for use in both passenger cars and light truck requiring fluid for automatic transmission and power steering system and synchromesh gear system.

PERFORMANCE LEVEL & BENEFITS

Meet the performance level of DEXTRON II and III of general Motors, USA GM Dexron III (H)/IIE, ZF TE-ML 03D-09B-14DFord MERCON, Caterpillar TO-2, Allison C-4, Mercedes Benz Sheet 236.9, Voith G 607

- Excellent cold weather performance
- Exceptional resistance to foaming, rust and corrosion
- Excellent high temperature cleanliness and stability
- Improved oxidation stability
- Improved retention of frictional properties to perform smooth and trouble-free clutch and brake operations

Typical Physical Characteristics

Color	ATF-II	ATF-III
Density @ 15°C , kg/cu m	0.865	0.860
Kinematic Viscosity @ 40°C , cSt	33.8	33.8
Kinematic Viscosity @ 100°C , cSt	7.3	7.3
Viscosity Index	175	175
Flash Point (COC), °C	180	180
Pour Point , °C	-45	-45
Clutch Friction Test	Pass	Pass
Cycling Test	Pass	Pass
Brookfield viscosity (cP) @ -40°C	36000	18700

Break Fluid Dot-3

GRADE

DOT-3

INTRODUCTION

Is high performance premium quality fully synthetic heavy-duty hydraulic break fluid. It contains anti-oxidant, metal de-activator and corrosion inhibitor for long service life of brake fluid and brake components. Due to its high Equilibrium Reflux Boiling Point (above 205^{o}C), the vapor locking problem is greatly reduced in high temperature operating condition, especially in cities where stop-and-go conditions require frequent application of brakes. Its excellent low temperature characteristics enable it to function up to minus 40^{o}C.

APPLICATION

Is recommended for modern hydraulic braking systems including both disc and drum type.

PERFORMANC LEVEL & BENEFITS

FMVSS 116 DOT-3, SAE J 1703, IS:8654-2001

- Excellent fluidity ensures efficient functioning at extremely low temperature
- Adequate viscosity at normal and high temperatures
- Enhanced oxidation and thermal stability
- Exceptional lubrication power to eliminate friction and wear between the pistons and cylinders in the brake system
- Outstanding water versatility ensures a long term brake system safety
- Perfectly compatible with elastomers to prevent trouble with gaskets and seals
- Long-term rust and corrosion protection

Typical Physical Characteristics

FMVSS Grade	DOT 3
Density @ 15^{o}C , kg/cu m	1.004
Kinematic Viscosity @ 40^{o}C , cSt	1400
Kinematic Viscosity @ 100^{o}C , cSt	2.2
Equilibrium Reflex Boiling Point (ERBP), ^{0}C	225
Wet ERBP, ^{0}C	149
pH Value	8.7

Break Fluid Dot-4

GRADE

DOT-4

INTRODUCTION

Is high performance premium quality fully synthetic heavy-duty hydraulic break fluid. It contains anti-oxidant, metal de-activator and corrosion inhibitor for long service life of brake fluid and brake components. Due to its high Equilibrium Reflux Boiling Point (above 240^{o}C), the vapor locking problem is greatly reduced in high temperature operating condition, especially in cities where stop-and-go conditions require frequent application of brakes. Its excellent low temperature characteristics enable it to function up to minus 40^{o}C.

APPLICATION

Is recommended for modern hydraulic braking systems including both disc and drum type in various new generation vehicles.

PERFORMANC LEVEL & BENEFITS

FMVSS 116 DOT-4, SAE J 1703, IS:8654-2001

- Excellent fluidity ensures efficient functioning at extremely low temperature
- Enhanced oxidation and thermal stability
- Exceptional lubrication power to eliminate friction and wear between the pistons and cylinders in the brake system
- Outstanding water versatility ensures a long term brake system safety
- Perfectly compatible with elastomers to prevent trouble with gaskets and seals
- Long-term rust and corrosion protection
- High boiling point to resist vapor lock even at high operating temperature

Typical Physical Characteristics

FMVSS Grade	DOT 4
Density @ 15^{o}C , kg/cu m	1.045
Kinematic Viscosity @ 40^{o}C , cSt	1300
Kinematic Viscosity @ 100^{o}C , cSt	2.2
Equilibrium Reflex Boiling Point (ERBP), ^{0}C	225
Wet ERBP, ^{0}C	160
pH Value	8.6

Hydraulic Oil

PRODUCT

Hydraulic Oils AW

GRADE

VG 10, 15, 22, 32, 46, 68,100

INTRODUCTION

Are blended from highly refined base stocks with high viscosity index and specially selected anti-oxidant, anti-corrosion, anti-wear, anti-rust and anti-foam additives. These oils can sustain very high pressure of the system and high speed of the pump and compatible with the seals normally used in the hydraulic system.

APPLICATION

Are recommended where long service life and a wide variety of industrial hydraulic and circulation systems are required.

PERFORMANCE LEVEL & BENEFITS

Denison HF-0 including dry and wet T6C-020, U.S. Steel 127/136, Vickers M-2950-S (mobile equipment), DIN 51524 Part 2, Vickers 1-286-S (industrial equipment), GM LS-2, Cincinati Machine P-68, P-70, Bosch Rexroth, JCMAS HK

- Extended oil life
- Outstanding thermal and hydraulic stability
- Excellent demulsibilitty power and air release capability
- Outstanding filterability and good shear stability
- High effective control over wear, corrosion and rust
- Typical Physical Characteristics

ISO Viscosity Grade-HLP	10	15	22	32	37	46	68	100
Density @ 15°C, kg/cu m	0.859	0.861	0.866	0.874	0.875	0.879	0.881	0.886
Kinematic Viscosity @ 40°C,cSt	10	15	22	32	37	46	68	100
Kinematic Viscosity@100°C, cSt	2.67	3.4	4.3	5.4	5.9	6.7	8.6	11.2
Viscosity Index	102	102	102	101	101	98	97	98
Flash Point, COC, °C	160	166	204	210	212	216	220	226
Pour Point, °C	-30	-27	-21	-18	-18	-15	-12	-12
Pump Tests	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
4-Ball Wear Test (15kg/80°C/600rpm/2hrs)	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

Hydraulic Oil

PRODUCT

Hydraulic Oils HLP

GRADE

VG 15, 22, 32, 46, 68,100

INTRODUCTION

Are premium grade hydraulic oils having extra heavy duty anti-wear property with excellent thermal stability and high FZG rating. They have excellent compatibility with seal normally used in hydraulic system and unique hydrolytic stability.

APPLICATION

Are recommended for high performance electro-hydraulic or numerically systems. These oils are also used as screw compressor oils.

PERFORMANCE LEVEL & BENEFITS

IS: 10522:1983 [Reaffirmed November, 1998}, DIN 51524 Part II}Denison HF-0 including dry and wet T6C-020, U.S. Steel 127/136, Vickers M-2950-S (mobile equipment), DIN 51524 Part 2, Vickers 1-286-S (industrial equipment), GM LS-2, Cincinati Machine P-68, P-70, Bosch Rexroth, JCMAS HK

- Extended oil life
- Outstanding thermal and hydraulic stability
- Excellent demulsibility power and air release capability
- Outstanding filterability and good shear stability
- High effective control over wear, corrosion and rust
- Improved compatibility with seals and soft metals
- Improved friction characteristics resulting in lower running temperatures

Typical Physical Characteristics

ISO Viscosity Grade-HLP	15	22	32	46	68	100
Density @ 15^{o}C, kg/cu m	0.861	0.866	0.874	0.879	0.881	0.886
Kinematic Viscosity @ 40^{o}C,cSt	15	22	32	46	68	100
Kinematic Viscosity@100^{o}C, cSt	3.8	4.9	6.4	8.2	10.9	14.7
Viscosity Index	150	150	150	150	150	150
Flash Point, COC, ^{o}C	166	184	190	196	220	206
Pour Point, ^{o}C	-39	-39	-30	-27	-24	-21
Pump Tests	Pass	Pass	Pass	Pass	Pass	Pass
4-Ball Wear Test (15kg/80^{0}C/600rpm/2hrs)	Pass	Pass	Pass	Pass	Pass	Pass

Hydraulic Oil

PRODUCT

Hydraulic Oils HVI

GRADE

VG 32, 46, 68 &100

INTRODUCTION

Are premium grade high viscosity index hydraulic oils which have excellent shear stability and can withstand wide range of temperatures. These oils contain special additive package that reduces wear, rust, oxidation, etc. and imparts good hydrolytic stability and water separation characteristics. Good anti-foam and air release properties ensure smooth operation and system efficiency. They have excellent compatibility with seals normally used in hydraulic system.

APPLICATION

Are mainly recommended for hydraulic excavators of Tata-Hitachi, L & T, Komatsu, etc. and can also be use for suitable industrial applications.

PERFORMANCE LEVEL & BENEFITS

DIN 51524 Part II, Denison HF-0 including dry and wet T6C-020, U.S. Steel 127/136, Vickers M-2950-S (mobile equipment), DIN 51524 Part 2, Vickers 1-286-S (industrial equipment), GM LS-2, Cincinati Machine P-68, P-69 & P-70, Bosch Rexroth, JCMAS HK.

- Outstanding thermal and hydraulic stability
- Excellent demulsibility power and air release capability
- Outstanding filterability and good shear stability
- Exceptional resistance to oxidation and foaming
- High effective control over wear, corrosion and rust
- Improved compatibility with seals and soft metals

Typical Physical Characteristics

ISO Viscosity Grade-HVLP	32	46	68	100
Density @ 15^{o}C, kg/cu m	0.874	0.879	0.881	0.886
Kinematic Viscosity @ 40^{o}C,cSt	32	46	68	100
Kinematic Viscosity@100^{o}C, cSt	6.4	8.2	10.9	14.7
Viscosity Index	150	150	150	150
Flash Point, COC , ^{o}C	190	210	200	210
Pour Point, ^{o}C	-30	-27	-24	-21
Pump Tests	Pass	Pass	Pass	Pass
4-Ball Wear Test (15kg/80^{0}C/600rpm/2hrs)	Pass	Pass	Pass	Pass

Hydraulic Oil

PRODUCT

Hydraulic Oils RO

GRADE

VG 12, 15, 22, 32, 46, 68,100, 150, 220, 320 and 460

INTRODUCTION

Are specially developed for circulating and hydraulic transmission system, and are manufactured from highly refined base stocks with high viscosity index. These oils are fortified with anti-oxidant, anti-corrosion, anti-wear, anti-rust and anti-foam additives.

APPLICATION

Are suggested for moderate hydraulic sustems and wide variety of circulating systems of industrial equipments.

PERFORMANCE LEVEL & BENEFITS

Denison HF-0 including dry and wet T6C-020, U.S. Steel 127/136, Vickers M-2950-S (mobile equipment), DIN 51524 Part 2, Vickers 1-286-S (industrial equipment), GM LS-2, Cincinati Machine P-68, P-69 & P-70, Bosch Rexroth, JCMAS HK.

- Outstanding thermal and hydraulic stability
- Outstanding filterability and good shear stability
- Exceptional resistance to oxidation and foaming
- Excellent demulsibility power and air release capability
- Highly effective control over wear, corrosion and rust
- Improved compatibility with seals and soft metals

Typical Physical Characteristics

ISO Viscosity Grade-HVLP	32	46	68	100
Density @ 15^{o}C, kg/cu m	0.870	0.879	0.880	0.885
Kinematic Viscosity @ 40^{o}C,cSt	32	46	68	100
Viscosity Index	95	95	95	95
Flash Point, COC, ^{o}C	190	210	210	210
Pour Point, ^{o}C	-9	-9	-9	-9
Pump Tests	Pass	Pass	Pass	Pass
4-Ball Wear Test (15kg/80^{0}C/600rpm/2hrs)	Pass	Pass	Pass	Pass

Grear Oil

PRODUCT

Industrial Gear Oils

GRADE

VG 68,100, 150, 220, 320, 460 & 680

INTRODUCTION

Are blended from highly refined base stocks and are fortified with specially selected EP and other additives. They have good thermal stability and high oxidation resistance, good demulsibility, low foaming tendency and provide rust and corrosion protection to metal surfaces.

APPLICATION

Are recommended for heavy duty enclosed year drives, with splash and circulation systems and for plain bearings, sliding surfaces and chain drives subjected to heavy shock loads where temperatures do not exceed 100°C.

PERFORMANCE LEVEL & BENEFITS

Meet IS: 8406-1993n(RA 2006) requirements. U.S. Steel 220 & 224, DIN 51517 Part 3, AGMA 250.04 & 9005-D94, David Brown S1.53.101, Cincinnati P-35, P-59, P-63, P-74, P-76, P-77 & P-78

- Perfect load carrying ability and anti-friction property reduce gear and bearing wear
- Outstanding demulsibilitty power, thermal and oxidation stability give long oil life
- Exceptional protection against foaming, rust and corrosion
- Excellent compatibility with all seals to control the leakage
- Resistance to micro-pitting reduces risk of premature gear failure

Typical Physical Characteristics

ISO Viscosity Grade	68	100	150	220	320	460	680	1000
Density @ 15°C, kg/cu m	0.881	0.886	0.895	0.898	0.903	0.908	0.910	0.913
Kinematic Viscosity @ 40°C,cSt	68	100	150	220	320	460	680	1000
Kinematic Viscosity@100°C, cSt	8.6	11.2	14.8	19.1	24.4	30.8	40.0	52
Viscosity Index	97	98	97	97	97	97	96	98
Flash Point, COC, °C	190	200	210	220	240	260	264	270
Pour Point, °C	-12	-12	-12	-9	-9	-6	-6	-6
Timken Ok Load, lbs min.	60	60	60	60	70	70	70	70
FZG, Pass Load Stage	>12	>12	>12	>12	>12	>12	>12	>12

Turbine Oil

PRODUCT : Turbine Oils

GRADE: 22, 32, 46, 57, 68 & 76

INTRODUCTION

Are blended from highly refined turbine base stocks containing antioxidant, rust inhibitor and antifoam additives. They have excellent thermal stability and demulsibility.

APPLICATION

Are recommended for lubrication of steam, gas and hydraulic turbines.

PERFORMANCE LEVEL & BENEFITS

Meet IS-489-1993Specification, BIS-1012-1987 (reaffirmed 1993), Meet General Electric GEK 27070 Specification, KWU (Siemens) W. Germany. DIN 51524 Part

General Electric GEK 28143A, 32568F
Deutsche Industrie Norm DIN 51515
Alstom Power (ABB) HTGD 90117
Alstom Power NBA P 5001
Cincinnati Milacron P-38, P-55 & P-57
Westinghouse 21 T0591
ISO 8068
Solar Turbines ES9-224R
Siemens TLV 901304
US Military MIL-H-17672D

- Longer oil life smooth operations
- Outstanding thermal stability at very high temperature
- Strong demulsibility power, air release capability and filterability
- Outstanding filterability and good shear stability
- Enhanced resistance to foaming and oxidation
- Long term corrosion, wear and rust protection
- Improved compatibility with seals and soft metals
- Low sludging tendency and outstanding load carrying ability

Typical Physical Characteristics

ISO Viscosity Grade	22	32	46	68	100
Density @ 15°C, kg/cu m	0.866	0.874	0.879	0.881	0.886
Kinematic Viscosity @ 40°C,cSt	22	32	46	68	100
Kinematic Viscosity@100°C, cSt	4.3	5.4	6.7	8.6	11.2
Viscosity Index	102	101	98	97	98
Flash Point, COC, °C	204	210	216	220	226
Pour Point, °C	-21	-18	-15	-12	-12
TAN, mgm KOH/gm	0.15	0.15	0.15	0.15	0.15
Demulsibility	40-40-0	40-40-0	40-40-0	40-40-0	40-40-0
Rust Test (Method B) Oxidation	No Rust	No Rust	No Rust	No Rust	No Rust

Compressor Oil

PRODUCT

Compress Oils

GRADE

22, 32, 46, 68, 100, 150, 220 & 320

INTRODUCTION

Are blended from highly refined base stocks with antioxidant, rust inhibitor. They provide excellent lubrication under high temperature and high load conditions.

APPLICATION

Are recommended for cylinder lubrication of reciprocating compressors and rotary air compressor operating up to 220°C air discharge temperature..

PERFORMANCE LEVEL & BENEFITS

Meet requirements of cylinder lubricant in reciprocating and rotary air compressors. DIN 51506 VDL, ISO 6743-3: 2003 DAA Normal Duty.

- Longer oil life with smooth operations
- Outstanding thermal stability at very high temperature
- Strong demulsibility power, air release capability and filterability
- Outstanding filterability and good shear stability
- Long term corrosion, wear and rust protection
- Improved compatibility with seals and soft metals
- Low sludging tendency and outstanding load carrying ability
- Outstanding low volatility and minimum carbon deposit formation tendency to avoid the risk of fires and explosion

Typical Physical Characteristics

ISO Viscosity Grade	22	32	46	68	100	150
Density @ 15°C, kg/cu m	0.866	0.874	0.879	0.881	0.886	0.895
Kinematic Viscosity @ 40°C,cSt	22	32	46	68	100	150
Kinematic Viscosity@100°C, cSt	4.3	5.4	6.7	8.6	11.2	14.8
Viscosity Index	102	101	98	97	98	97
Flash Point, COC, °C	204	210	216	220	226	236
Pour Point, °C	-21	-18	-15	-12	-12	-12
TAN, mgm KOH/gm	0.30	0.30	0.30	0.30	0.30	0.30
Demulsibility	40-40-0	40-40-0	40-40-0	40-40-0	40-40-0	40-40-0
Sulphated Ash, %wt	0.06	0.06	0.06	0.06	0.06	0.06

BEARING OIL

PRODUCT

Bearing oils

GRADE

VG 100,150,220,320 & 460

INTRODUCTION

Bearing oils 100, 150, 220, 320 & 460 are premium quality heavy duty bearing oil with high viscosity index, superior oxidation and good thermal stability. They have unique demulsibility, antifoaming, antioxidation, antirust characteristics and excelellent film strength property to minimize wear in roll-neck bearing of steel mills.

APPLICATION

Bearing oils 100, 150, 220, 320 & 460 are recommended for the Morgan bearing of steel mills, for example is in the Plate Mills, Wire Rod Mills, Merchant Mills, Blooming and Billet Mills, Rail and Structural Mills etc. With various viscometic grades to take care of heavier load in the presence of water.

PERFORMANCE LEVEL & BENEFITS

Meet requirement of Morgan Bearing Lubricant specified by Morgan Construction Co.,USA and IPSS: 1-09-001-81

- Longer oil life with smooth operations
- Outstanding thermal stability at very high temperature
- Outstanding filterability and good shear stability
- Enhanced resistance to foaming and oxidation
- Long term corrosion, wear and rust protection
- Low sludging tendency and outstanding load carrying ability

Typical Physical Characteristics

ISO Viscosity Grade	100	150	220	320	460
Density @ 15°C, kg/cu m	0.886	0.895	0.898	0.903	0.908
Kinematic Viscosity @ 40°C,cSt	100	151	220	320	460
Kinematic Viscosity@100°C, cSt	11.2	14.8	19.1	24.4	30.8
Viscosity Index	98	97	97	97	97
Flash Point, COC, °C	200	210	220	220	250
Pour Point, °C	-6	-6	-6	-6	-6

CIRCULATING OIL

PRODUCT
Circulating oil

GRADE
VG 22, 32, 46, 68, 100, 150, 220, 320, & 460

INTRODUCTION
Circulating Oils are specially developed for circulating and hydraulic transmission system. They are manufactured from highly refined base stock with high viscosity index and are fortified with anti-oxidant, anti-corrosion, anti- wear, anti-rust and anti-foam additives.

APPLICATION
Circulating oils are suggested for moderate hydraulic system and wide variety of circulating system of industrial equipments.

PERFORMANCE LEVEL & BENEFITS
IS: 3098: 1983 (Reaffirmed FEBRUARY, 2004 DIN 51517-2 CL)

- Natural viscosity index
- Good thermal stability
- Fail resistance to rust and corrosion
- Excellent protection against foaming
- Good demulsibility power
- Economical product

Typical Physical Characteristics

ISO Viscosity Grade	22	32	46	68	100	150	220	320	460
Density @ 15°C, kg/cu m	0.866	0.874	0.879	0.881	0.886	0.895	0.898	0.903	0.908
Kinematic Viscosit @ 40°C,cSt	22	32	46	68	100	151	220	320	460
KinematicViscosity@100°C,cSt	4.3	5.4	6.7	8.6	11.2	14.8	19.1	24.4	30.8
Viscosity Index	102	101	98	97	98	97	97	97	97
Flash Point, COC, °C	204	210	216	220	226	236	242	260	280
Pour Point, °C	-21	-18	-15	-12	-12	-12	-12	-6	-6

TEXTILE OIL

PRODUCT

Spindle Oil

GRADE

ISO 10, 15, 22

INTRODUCTION

Spindle oil is advanced solvent refined mineral oil blended to perfection with zinc-free, anti-wear additive package to provide extended performance and protection spindles and circulatory or certain hydraulic system.

APPLICATION

Expressly recommended for the lubricant of high speed spindles used in hosiery, textile and knitwear, machineries, machine circulation system, oil lubricant plain and rolling element bearing. Low or moderately loaded enclosed gears. Some industrial hydraulic transmission and control systems containing steel-on- bronze and silver lubricant surfaces.

PERFORMANCE LEVEL & BENEFITS

Cincinnati Milacron P.62 (10), NF E 60-200, DIN 51517 Part 2 CL 10, CL 22, British Standard 6413/2

- Strong film strength to maintain the required boundary film at very high speed
- Outstanding air-release capability
- Improved anti-wear capability to provide smooth machine needles operations
- Exceptional resistance to foaming and oxidation
- Long term rust and corrosion protection

Typical Physical Characteristics

ISO Viscosity Grade	5	10	15	22
Density @ 15°C, kg/cu m	0.851	0.859	0.861	0.866
Kinematic Viscosity @ 40°C,cSt	5	10	15	22
Kinematic Viscosity@100°C, cSt	-	2.67	3.4	4.3
Viscosity Index	>100	102	102	102
Flash Point, COC, °C	146	160	166	204
Pour Point, °C	-30	-30	-27	-21

TEXTILE OIL

PRODUCT

Knitting Oil

GRADE

ISO 22

INTRODUCTION

Knitting Oil is a blend of highly refined mineral oil and unique R&O inhibitor, lubricity agent, emulsifier, anti-static and anti fogging additives to meet the requirement of modern textile machines.

APPLICATION

Industrial knitting machines, Circular double-knit, full fashioned, circular single-knit and tricot machine operations. All machine speeds and needle types-bath, spray and mist applications.

PERFORMANCE LEVEL & BENEFITS

Meets the requirement of all industrial knitting machines

- Strong film strength to maintain the required boundary film at very high speed
- Effective emulsifier ensures excellent wash ability and rinse-out of fabrics in water in even of contact with oil
- Improved anti-wear capability to provide smooth machine knitting operations
- Exceptional resistance to degradation and oxidation at high temperatures ensures long oil life
- Superior rust and corrosion protection under wet or humid conditions
- Anti-fogging agents minimize formation of stray mist, helping to reduce oil consumption and maintain a cleaner workplace

Typical Physical Characteristics

ISO Viscosity Grade	22
Density @ 15^{o}C, kg/cu m	0.866
Kinematic Viscosity @ 40^{o}C,cSt	22
Kinematic Viscosity@100^{o}C, cSt	4.3
Viscosity Index	102
Flash Point, COC, ^{o}C	204
Pour Point, ^{o}C	-21
Rust Point test (D665B)	Pass

HEAT TRANSFER OIL

GRADE

ISO 22, 32, 46, 68,1OO

INTRODUCTION

Heat transfer oil is formulated with carefully selected, high quality solvent refined, medium to high viscosity index mineral oils to provide the highest level of protection & performance in indirect closed fluid heat transfer systems operating at temperatures up to 320^{O}C.

APPLICATION

Recommended for heat transfer used in all closed circuit heat exchangers and other circulation, equipment, operating at bilk temperatures up to 320^{o}C.
Can also be used in hot or cold quenching system.

PERFORMANCE LEVEL & BENEFITS

Meets the requirement of all industrial heat transfer oils

- Extended oil life
- Excellent fluidity at low temperature ensures easy circulation
- Outstanding thermal and oxidation stability at high temperature
- Long term rust and corrosion protection
- Excellent resistance to sludging and fouling of heat transfer zones.
- High specific heat and thermal conductivity for effective heat transfer
- Strong demulsibility power and air release capability

Typical Physical Characteristics

ISO Viscosity Grade	22	32	46	68	100
Density @ 15^{o}C, kg/cu m	0.866	0.874	0.879	0.881	0.86
Kinematic Viscosity @ 40^{o}C,cSt	22	32	46	68	100
Kinematic Viscosity@100^{o}C, cSt	4.3	5.4	6.7	8.6	11.2
Viscosity Index	102	101	98	97	98
Flash Point, COC, ^{o}C	204	210	216	220	226
Pour Point, ^{o}C	-21	-18	-15	-12	-12
Initial Boiling Point, ^{o}C	Above 355	-	-	-	-
Coeffcient of Thermal expansion per ^{o}C	0.00076	-	-	-	-
TAN, mg KOH/g	0.05	0.05	0.05	0.05	0.05
Conradson Carbon Residue, %	0.1	0.1	0.1	0.1	0.1

Machine Tool Oils

PRODUCT
Machine Oils

GRADE
VG 22, 32, 46, 68, 100, 220

INTRODUCTION
Have good inherent oxidation and thermal stability, non-corrosive, excellent ability to separate from water and high viscosity index with light color.

APPLICATION
Are generally suggested for non-critical all loss lubrication systems and other oiling application by hand for lubrication of bearings, open gears, light loaded slides and guide ways machine tool. They are widely used in textile additive containing oils. These oils are also recommended for flushing of inaccessible internal surfaces of various automotive and industrial equipments.

PERFORMANCE LEVEL & BENEFITS
IS:493 (Part 1): 1981 [Reaffirmed November, 1998] Cincinnati Milacron and other machine tool manufacturers, DIN 51524HLP, ISO/DIS 6743-13.

- Strong film strength to maintain the required boundary film under heavy loads
- Excellent anti-wear capability to control wear under boundary condition
- Improved proper frictional characteristics to prevent stick slip and chatter thus ensuring smooth machine operation and dimensional precision
- Adequate adhesiveness to maintain film even at vertical surface
- Long-term rust and corrosion protection
- Outstanding separation capability for aqueous based cutting fluids

Typical Physical Characteristics

ISO Viscosity Grade	22	32	46	68	100	220
Density @ 15°C, kg/cu m	0.866	0.874	0.879	0.881	0.886	0.898
Kinematic Viscosity @ 40°C,cSt	22	32	46	68	100	220
Kinematic Viscosity@100°C, cSt	4.3	5.4	6.7	8.6	11.2	19.1
Viscosity Index	102	101	98	97	98	97
Flash Point, COC, °C	204	210	216	220	226	242
Pour Point, °C	-21	-18	-15	-12	-12	-12
CM Stick Slip Ratio (0.8 max)	0.76	0.76	0.76	0.76	0.76	0.73

Metal Working Fluids

GRADE

Conkut CL

INTRODUCTION

Is a translucent type of emulsion with water having the advantage of visibility of work piece and tool during machine operation. This special purpose soluble cutting oil contains special additives for rust and corrosion inhibitors with biocides to prevent the bacterial growth in the emulsion, the oil has excellent cooling and lubricating properties which impart good surface finish and ensures the long tool life.

APPLICATION

Is suitable for variety of cutting operations of ferrous and non-ferrous metals where emulsifiable oils are normally used. The oil normally used in the concentration of 5 to 10% depending on the severity of machine operation.

PERFORMANCE LEVEL & BENEFITS

Meets the requirements of IS-1115-1986 (Re-affirmed 1991).

- Non-phenolic and nitrite-free soluble oil forms homogenous and extreme stable milky emulsion in both hard and soft water with good anti-corrosion properties
- Outstanding lubricating and cooling power necessary to ensure good work piece finish and extended tool life
- Contains biocides that effectively control bacterial and fungal growth to give a long service life and to prevent emulsion breakdown and spoilage
- Long term control over wear, rust and corrosion
- High level of reserve alkalinity neutralizes acids to provide effective rust protection of parts and also improves the emulsion's resistance to bacterial degradation

Typical Physical Characteristics

	CONKUT CL
Appearance	Amber Liquid
Emulsion Type	Dense White
Density @ 15^{o}C, kg/cu m	0.921
Kinematic Viscosity@40^{o}C, cSt	37
Reserve Alkalinity, meq HCL/mL	0.16
pH @ 5% Concentration	8.9
Corrosion test	Pass

STROKE OUTBOARD OIL

PRODUCT

Stroke outboard oil

GRADE

TC-W3

INTRODUCTION

Is a high performance, ashless, 2-clycle outboard motor oil for all air and water cooled engines. This oil gives excellent lubrication and help prevent deposits from forming in the combustion chamber. Outboard 2T is pre-diluted of easier mixing and suitable for oil-injection systems. Use fuel/ oil ratios as specified by engine manufacturer up to maximum of 100:1.

APPLICATION

Specifically intended for the lubrication of most- modern, high –powered water-cooled, two-stroke cycle gasoline engine used in marine outboard services, using fuel to oil ratios of 50:1, or higher, are now recommended particularly for high output engine.

PERFORMANCE LEVEL & BENEFITS

NMMA TC-W3, Recertified RL-56669E

- Superior protection against piston cylinder scuffing
- Outstanding filterability
- Exceptionally high resistance to heat generation and frictional power losses
- Highly effective control over wear, rust, corrosion and ring sticking to ensure long life of moving parts
- Trouble free ignition and protect blocking of the exhaust ports and plugs
- Right level of detergency to keep the engine clean.

Typical Physical Characteristics

NMMA	TC-W3
Density @ 15°C , kg/cu m	0.870
Kinematic Viscosity @ 40°C , cSt	38.13
Kinematic Viscosity @ 100°C , cSt	6.4
Viscosity Index	120
Flash Point , COC , °C	110
Pour Point , °C	-35
TBN, mgm KOH/gm	8.81
Sulfated Ash, % wt	<0.001
Detergency test	Pass

MEDIUM SPEED TRUNK PISTON DIESEL OIL

PRODUCT

Medium speed trunk piston diesel oil

GRADE

SAE 30-40 API CF

INTRODUCTION

Medium speed trunk piston diesel oil is a multi-functional crankcase lubricant, formulated with highly refined base oils and balance additive package to provide performance and protection for certain medium-speed marine diesel engines operating on residual, blended or distillate fuels, under low oil stress conditions.

APPLICATION

Medium-speed industrial or marine propulsion and auxiliary engines, burning residual or blended fuel oils, which create condition of low oil stress. These condition usually occur:

- In engine design more than 5 year old
- Some medium and high speed engines burning distillate fuel, where a high BN, high ash lubricant is suitable

PERFORMANCE LEVEL & BENEFITS

API CF

- High thermal behavior and excellent oxidation stability
- Exceptionally protection against wear, ring sticking, rust and corrosion to ensure long life of moving parts and reduce the need for engine servicing
- Resistance to the hydrolysis of the additives
- Strong demulsibility power and filterability
- Good stability in the presence of fuel contamination
- Typical Physical Characteristics

SAE Viscosity Grade	30	40
Density @ 15°C , kg/cu m	0.886	0.895
Kinematic Viscosity @ 40°C , cSt	100	151
Kinematic Viscosity @ 100°C , cSt	11.2	14.8
Viscosity Index	98	97
Flash Point , COC , °C	226	236
Pour Point , °C	-21	-18
TBN, mgm KOH/gm	20	20
Sulfated Ash, % wt	2.6	2.6

KEY FEATURES AND BENEFITS

Standard Product

Product extensively used in various industrial segments.

Customized products

Product specially designed and customized as per the respective customer and their special requirement.

Customer Formulated Product

Manufactured as per the formulation and specification provided by the respective customers.

SERVICES

Pure Gold provides the world –class condition monitoring service, which is designed to help you improve your business performance. Whatever your needs or application, Pure Gold can provide a full range of high- performance product and additional services.

STORAGE PRE-CAUTION

Extreme care is taken while processing and packing these product including filling of to avoid moisture, particulate matter, fibers hence, care should be taken to store white oil product a clean and dry condition or indoors prevent and sunlight