**-AUTOMOTIVE LUBRICATING OILS-**

**GOLDOYL PREMIUM OILS 10W-30, 10W-40, 15W-40, 20W-50**

**PERFORMANCE:**

Lower oil consumption, Good fuel efficiency, Superior deposit control & rust and wear protection, Longer drainage interval, Superior engine cleanliness,

**PERFORMANCE STANDARDS:**

API CH4/SJ Services.

**APPLICATIONS:**

Recommended for new generation imported or Indian cars and buses and also trucks

**GOLDOYL CF – ENGINE OILS. 10W, 20, 30, 40, 50, 20W-40.**

**PERFORMANCE BENEFITS:**

Long drive, Extended drainage interval, Excellent engine cleanliness, Improves fuel efficiency, lowers oil consumption, longer component life.

**PERFORMANCE STANDARD:**

API CF4/SJ. MIL – L 2104C, & IS 13656 – 2002 EDL 4.

**APPLICATIONS:**

Super charged diesel engines of heavy commercial vehicles of all makes.

**GOLDOYL PREMIUM GASOLINE ENGINE OILS. 5W-20, 10W-40.**

**PERFORMANCE BENEFITS:**

Superior Rust and Wear protection, Slug control, Longer engine life, Better fuel economy, Lower oil consumption, Extended drain interval.

**PERFORMANCE STANDARD:**

APISL/CI 4.

**APPLICATIONS:**

Recommended for new generation, imported and Indian passenger vehicles using gasoline and diesel engine.

**GOLDOYLTRACTOR OILS (U):**

**30, 15W- 30.**

**PERFORMANCE BENEFITS:**

All weather applications, long fluid life, total lubrication for engines, hydraulic transmissions, wet brakes etc.

**APPLICATION:**

Engine parts, transmission, final drive, wet brakes and hydraulics.

**PERFORMANCE STANDARDS:**

API CE/SF, MIL – L – 2104 B.

**GOLDOYL TRACTOR OILS (G): 20W- 40.**

**PERFORMANCE BENEFITS:**

All weather applications, long fluid life, protects against corrosion and oxidation with good EP properties.

**PERFORMANCE STANDARD:**

API CD/IS 13656 – 2002 E-DL2 MIL – L – 2105 & API GL-4.

**APPLICATIONS:**

Specially recommended for the engine combined and hydraulic system of tractors.

**GOLDOYL**

**C4SAE10, C4SAE30.**

**PERFORMANCE BENEFITS:**

Desired friction characteristics to the clutch, anti rust protection for the components of the system. Good seal compatibility protects gear & other lubricated parts against wear. Smooth operation of precision hydraulic control system. High oxidation and thermal stability.

**APPLICATIONS:**

Recommended for commercial power shift . Example, Crawler tractor, excavation, scrapers, shovel loaders, log loaders, dumpers.

**PERFORMANCE STANDARD:**

Meets, TES-228 for hydraulic fluid – Type C4 of DETROIT DIESEL ALLISION, DIVISION OF GENERAL MOTORS CORPORATION USA.

**GOLDOYL TRANSFLUID (G)**

**PERFORMANCE BENEFITS:**

Extended life of Gear Boxes, smooth chatter free clutch engagement, reduces slug and varnish formation. Excellent thermal and oxidation stability protects parts against rusting.

**PERFORMANCE STANDARAD:**

Meets GENERAL MOTORS TYPE A SUFFIX A. DAIMLER BENZ DBL 6623 – 10.

**APPLICATIONS:**

Recommended for automatic and power steering units and also for synchromesh gear boxes. Extended life of gear boxes, bearings and other lubricated parts.

**GOLDOYL PUMPSET OIL 30 & 40.**

**PERFORMANCE BENEFITS:**

Minimal wear & tear, increased engine life, minimum maintenance cost.

**APPLICATIONS:**

Recommended for slow, medium and high speed stationery diesel engines, equipped on agricultural pump sets. Operating on HSD or LDO.

**-INDUSTRIAL LUBRICATING OILS-**

**HYDRAULIC OILS ( ANTIWEAR TYPE )**

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| **These Anti-wear type oils Conform to IS: 10522.1983 (reaffirmed 2004) specifications. Meet the requirement of high-pressure systems of high pump speed. They are recommended for hydraulic and circulation systems of wide variety of equipments. These oils pass Vickers V – 104c vein pump test.**  **These oil are also used for compressor crank case lubrication but not recommended for lubrication of turbines and equipments having silver coated components** |

**HYDRAULIC OILS**

**They are used in circulation lubrication system for gears and bearings. They provide excellent performance at elevated temperature found in paper mills coal pulverisers and calendar bearings.**

**These grades are also recommended for use in machine tools hydraulic and circulation systems, compressors and enclose gear boxes which do not require EP type lubricants.**

**INDUSTRIAL GEAR OILS**

**Premium Quality extreme pressure industrial gear oils having excellent oxidation resistance and thermal stability Recommended for all heavy enclosed gear drives with circulation to splash lubricating system operating under heavy or shock load conditions. Meet IS: 8406- 1993 DIN 51517 part 3. Cincinnati Milacron P -63, P – 77, P – 59 & P – 35**

**COMPRESSOR OILS**

**Compressor cylinder lubricating oils recommended for high performance of reciprocating and rotary air compressors cylinder lubrication. Meet the requirement of DIN 51506 VD-L group and ISO: DIS - 6521 specifications for air compressor oil.**

**REFRIGERATION COMPRESSOR OILS**

**They meet IS4578 – 1989 Specifications. Highly refined low pour oils with good chemical stability and ready solubility in liquefied refrigerants.**

**Wide range of refrigeration compressors ( both reciprocating and rotary) using all conventional refrigerants except sulphur-di-oxide and CFC.**

**GENERAL PURPOSE SPINDLE AND MACHINERY OILS**

**General-purpose lubricating machinery oils recommended for textile paper machine tools and all types of industrial machineries. They contain film strength and anti rust additives and provide good oiliness for general lubrication of machinery**

**HONING OILS**

**Very light viscosity Honing oil with excellent lubricity characteristics. ft has the extra fluidity to ensure quick thorough flushing action and the absence of any material, which might cause to stone glazing, ensuring very good surface finish. It also gives long life to the honing stones. Recommended for honing of steel liners ball bearing races super finishing operations even on hardened metals and asia flat honing operations. Non-staining and non-corrosive to cuprous metals.**

**METAL WORKING LUBRICANTS**

**A very important segment of the metal working industry is metal forming. In this process the metal , instead of being cut or machined, is forced to flow to acquire the desired dimensions by the use of the suitable mechanical equipment. Metal forming process includes operations like pressing, stamping, deep drawing, wire drawing, tube drawing and forging. During these operations considerable amount of heat and stress are generated. Draw Oil grades are tailor made to satisfy the various requirements included in metal drawing / forging operations. The product has been specially developed for aluminium wire drawing applications. this product ensures nil wire breakage and scouring. The product can be used for deep drawing of wires, tube drawing, forming, spinning and other similar medium to heavy duty operations of carbon steels and non-Ferrous metals.**

**CUTTING OILS (FLUIDS)**

**Cutting fluid is a type of coolant and lubricant designed specifically for metalworking processes, such as machining, stamping and other cutting operations. There are two kinds of cutting fluids, which are Neat (straight) cutting oil, Soluble (oil-water emulsions) cutting oil, They may be made from petroleum distillates (mineral & base oil), Depending on context and on which type of cutting fluid is being considered, it may be referred to as cutting fluid, cutting oil, cutting compound, coolant oil, or lubricant.**

**There are generally three types of liquids: mineral (Neat Cutting Fluid), semi-synthetic, and synthetic. Semi-synthetic and synthetic cutting fluids represent attempts to combine the best properties of oil with the best properties of water by suspending emulsified oil in a water base. These properties include: rust inhibition, tolerance of a wide range of water hardness (maintaining pH stability around 9 to 10), ability to work with many metals, resist thermal breakdown, and environmental safety.**

**NEAT CUTTING OILS**

**Mineral oils, which are petroleum-based, Chlorine-free neat cutting oil designed for very hard machining operations on ferrous metals, Excellent anti-wear and extreme pressure performance, preventing the formation of built-up edges and increasing the life time of the equipment. These vary from the thick, dark, sulfur-rich cutting oils used in heavy industry to light, clear oils.**

**SOLUBLE CUTTING OILS**

**Semi-synthetic coolants, also called "soluble oil," are an emulsion or micro or macro emulsion of water with mineral oil. A typical CNC machine tool usually uses emulsified coolant, which consists of a small amount of oil emulsified into a larger amount of water through the use of a detergent. Synthetic coolants are usually water-based.**

**Water is a good conductor of heat but has drawbacks as a cutting fluid. It boils easily, promotes rusting of machine parts, and does not lubricate well. Therefore, other ingredients are necessary to create an optimal cutting fluid.**

**Superior quality soluble type metal working fluid, forming stable milky white emulsion. Gives excellent surface finish and extended tool life.**

**ALL PURPOSE / MULTI PURPOSE GREASES**

**These are lithium soap high melting point multipurpose greases having excellent water resistance properties, high oxidation stability, maximum structural stability with superior Anti-rust and Anti-corrosion properties available in NLGI -2 & 3 consistencies. They meet the requirement of IS-7623-1993 & IPSS: 1-09-006 specification and US steel 374 requirement. Widely used in steel plants heavy engineering unit’s textile mills petrochemical and chemical units. Also recommended for all grease lubricated parts of automobiles including commercial vehicles.**

**EP GREASES**

**NLGI Grades 00, 0, 1 & 2**

**These EP Greases are premium quality lithium based greases containing an extreme pressure additive suitably formulated to meet the demand for boundary lubrication. These products possess excellent shear stability high load carrying capacity prevents excessive wear, seizure. There particularly useful for situations warranting usage of extreme pressure greases subjected shock loads at temperatures at to about 140 oC . They meets IS 7623: 1993 ( 2 & 3 EP Type) and IPSS : 1-09-005-99. These greases meet the requirements of industrial greases applications for plain and antifriction bearings requiring higher load bearing ability, such as automotive, earth moving equipments, gear couplings, electric motors, mining equipments and general industrial machinery.**