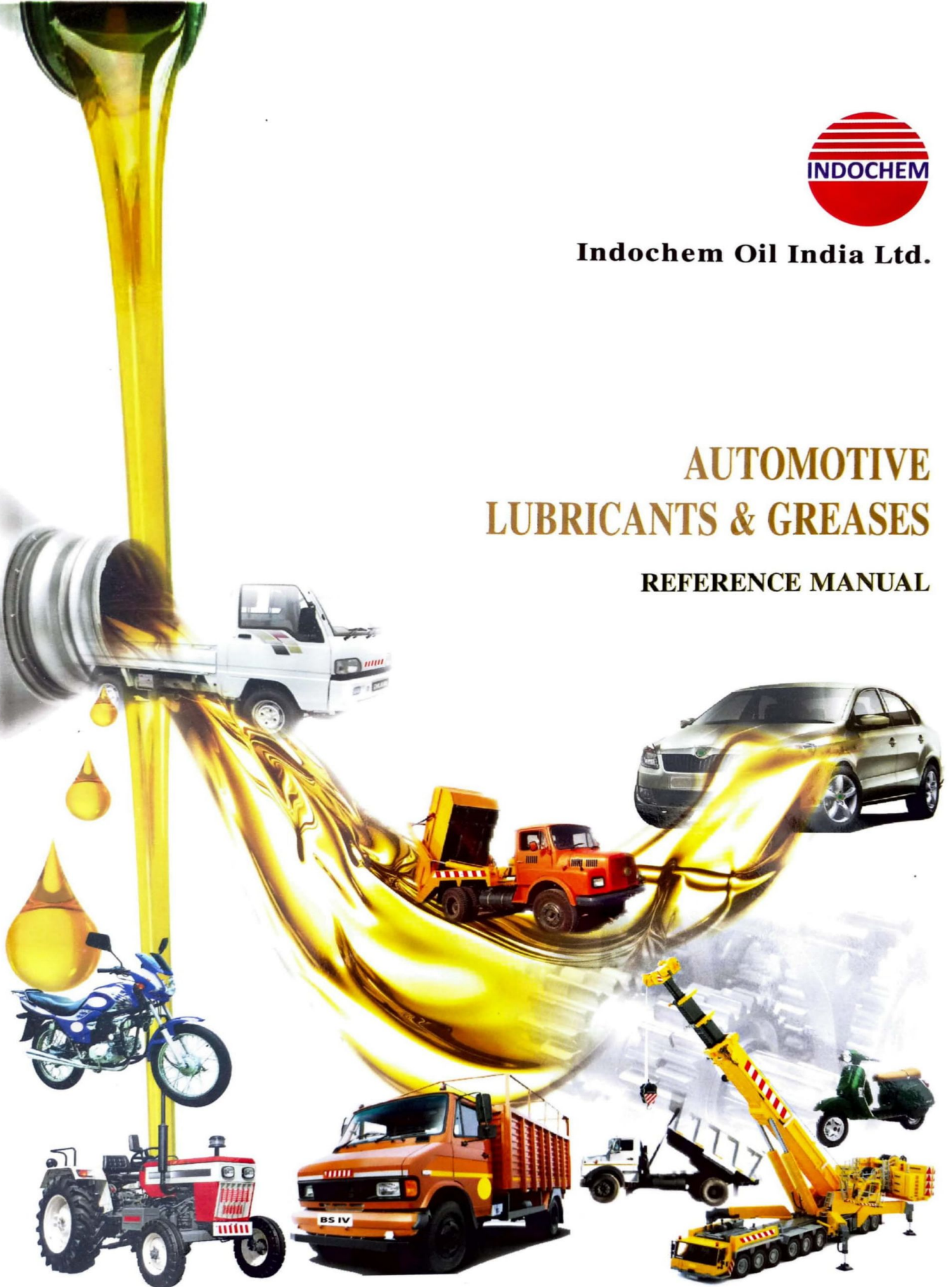




Indochem Oil India Ltd.

AUTOMOTIVE LUBRICANTS & GREASES

REFERENCE MANUAL



Segment wise Product Profile

Petrol Engines

Motor Cycle / Scooter

1. INDOCHEM **eNDURA 2T** API TC / JASO FC
2. INDOCHEM **eNDURA 4T** API SJ / MA2 20W40
3. INDOCHEM **eNDURA 4T** Advance API SL / MA2 20W40
4. INDOCHEM **eNDURA 4T** Advance API SL / MA2 20W50
5. INDOCHEM **eNDURA 4T** Premium API SL / MA2 10W30
6. INDOCHEM **eNDURA 4T GEN NXT** API SM / SN / MA2 15W30
7. INDOCHEM **eNDURA 4T High end** API SL / MA2 & MA 15W50
8. INDOCHEM **eNDURA SCOOTEC** API SL / MB 10W30

Passenger Cars / SUVs

1. INDOCHEM **eUROtech** API SL / CF 10W30 / 10W40 / 20W50
2. INDOCHEM **eUROtech Super SM** API SM / CF 5W30 / 10W30 / 10W40

CNG Engines

Auto Rickshaw / Car

1. INDOCHEM **OLIVE Green** API CF/ SF 20W50
2. INDOCHEM **OLIVE Green** API CF4 15W40 / 20W50

Diesel Engines

Auto Rickshaw (4 Stroke)

1. INDOCHEM **dYEZL** API CF4 15W40 / 20W40

Passenger Cars / SUVs

1. INDOCHEM **dYEZL** API CF4 15W40
2. INDOCHEM **dYEZL** API CH4 / CI4 10W30 / 10W40 / 15W40

Heavy Duty Diesel Commercial Vehicles

1. INDOCHEM **dYEZL** MULTIGRADE API CF/CD/SF 20W40 / 15W40
2. INDOCHEM **dYEZL** TURBO CHARGE API CF4 Plus 20W40 / 15W40
3. INDOCHEM **dYEZL** ADVANCE HDDEO API CH4 / CI4 / SL 15W40
4. INDOCHEM **dYEZL PREMIUM E7 GEN NXT** API CI4 Plus 10W40 / 15W40

(Modern Generation Diesel High Performance HDDEO Vehicles)

Gear Oils

Automotive Gear & Transmission Oils

1. INDOCHEM **GEAR PRIME EP** GL4 SAE 90 / 140
2. INDOCHEM **GEAR PREMIUM XP** GL5 SAE 80W90 / 85W140
3. INDOCHEM **TEE QEE** "Dex 1 & 1B"
4. INDOCHEM **TEE QEE** "Dex IID"

Automotive Specialities

Coolants

1. INDOCHEM **Koolant RTU (-17 deg. C)** ASTM D15 standards in British Standard 6580
2. INDOCHEM **Koolant RTU (-40 deg. C)** ASTM D15 standards in British Standard 6580

Brake fluids

1. INDOCHEM **Brake FLUID DOT 3**
2. INDOCHEM **Brake FLUID DOT 4**



Greases (Automotive)

1. **UNIVERSAL** MP 30000 GREASE
2. **LITHIUM** GREASE AP 3
3. **LITHIUM** COMPLEX GREASE
4. **INDOCHEM** POWER GEL GREASE
5. **INDOCHEM** CHASSIS GREASE
6. **INDOCHEM** AP - LL40000 GREASE
7. **INDOCHEM** WHEEL BEARING GREASE
8. **INDOCHEM** EP - 2 GREASE
9. **INDOCHEM** **POWER GEL ADVANCE** (Semi Synthetic)

Agriculture & Off Highway Equipment

Farm Tractors

1. **INDOCHEM** **uTTO** Junior (Tractor Engine Oil) API CD / CF SAE 40
2. **INDOCHEM** **uTTO** Junior Plus (Tractor Engine Oil) API CF4 20W40 / 15W40
3. **INDOCHEM** **TRACTOR SAMRAT uTTO Premium**
4. **INDOCHEM** **STOU GEN Nxt** (All in One)

Pump sets, Threshers, Sugarcane Harvesters, Crushers

1. **INDOCHEM** **Pump Set Oil** API CD SAE 40 , 20W40

Off Highway Equipment/ DG sets (Construction Equipment)

Engine Oil

1. **INDOCHEM** **OFF Highway** 'CD' Multi Equipment
API CD / CF SAE 20W40 / 15W40
2. **INDOCHEM** **OFF Highway** 'SHPD' Multi Equipment
MB228.3, ACEA E3-96 20W40 / 15W40
(SHPD Super High Performance Diesel Engine oil)



INDOCHEM

INDOCHEM OIL INDIA LTD.



PRODUCTS	VISCOSITY GRADE	SPECIFICATIONS	DESCRIPTION & APPLICATION
eNDURA 2T	Synthetic Based Low smoke	JASO FC API TC	<p>It is a new generation semi-synthetic, low smoke, environmentally friendly 2 stroke engine oil. Formulated with super refined mineral base oil & a special synthetic component, using a well-balanced low ash additives. A specially selected diluent is added to ensure instantaneous self-mixing of oil with fuel.</p> <p>Application Use in all types of 2 or 3 wheeler vehicles and outboard boats fitted with 2 stroke petrol engines / CNG gas. For gear box application of 2 wheelers, use MULTIGRADE 20W-40 type of oil.</p> <p>Benefits</p> <ul style="list-style-type: none"> - Extremely low visible exhaust smoke levels - Reduced spark plug fouling/ Excellent lubrication under/ longer engine life
eNDURA 4T Protects Engine life	20W40	JASO T903; API SJ / JASO MA 2 Exceeds SL/CF	<p>Formulated using high quality Base stocks with high shear viscosity index VI Improvers. Chemistry used capable to take care of Engine, Gear Box, clutch.</p> <p>Application Recommended for use in all types 4 stroke motorcycles, scooters and Auto rickshaws including new generation bikes</p> <p>Benefits</p> <ul style="list-style-type: none"> - Power output - Engine cleanliness - Protects Engine life - Ideal level of fuel efficiency - Capable of Meeting recommended drain period
eNDURA 4T Advance Protects Engine life	20W40	JASO T903; API SL / CF JASO MA 2 Meet Specification for Valve Train Wear (VTW)	<p>Formulated using high quality Base stocks with high shear viscosity index VI Improvers. High end performance Chemistry used capable to take care of Engine, Gear Box, clutch.</p> <p>Recommended for use in all types 4 stroke motorcycles, scooters and Auto rickshaws including new generation bikes</p> <p>Benefits</p> <ul style="list-style-type: none"> - Superior Power output - Smooth Clutch performance - Engine cleanliness & Protects engine life - Fuel efficiency - Moderates Engine Noise - Capable of Meeting recommended drain period
eNDURA 4T Advance Suitable for use in all seasons	20W50	JASO T903; API SL / CF JASO MA 2 Meet Specification for Valve Train Wear (VTW)	<p>Oil designed using High end performance Chemistry to encounter high temperature operating conditions. Special frictional properties for smoother wet clutch operation. Excellent oxidation, wear protection for extended oil & engine life. Excellent sludge & varnish control to Minimize engine deposits.</p> <p>Application Suitable for All models of four stroke Engine Motorcycles, Scooters and Suitable for use in Auto rickshaws operating on dual fuels i.e. Petrol and CNG/LPG</p>

PRODUCTS	VISCOSITY GRADE	SPECIFICATIONS	DESCRIPTION & APPLICATION
			<p>Benefits</p> <ul style="list-style-type: none"> - Superior power output / Smooth clutch performance - Engine cleanliness/ Protects engine life - Ideal level of fuel efficiency - Better lubrication & Moderates Engine Noise - Excellent oxidation stability reduces oil consumption & increased oil life - Excellent wear protection to Engine parts & Gears, leading to Reduced maintenance & operating costs
<p>eNDURA 4T Premium</p> <p>Quick Start More Power</p>	10W30	<p>JASO T903; API SL /CF JASO MA 2</p> <p>Meet Specification for Valve Train Wear (VTW)</p>	<p>Specially designed for high temperature operating conditions with special frictional properties for smooth operation of wet clutches.</p> <p>Provides excellent oxidation and wear protection for extended oil & engine life. These oils minimize engine deposits due to excellent sludge and varnish control. These Oils are suitable for use in all seasons.</p> <ul style="list-style-type: none"> - Designed for Latest Generation Motorcycles - Also can be used for earlier models of Motorcycles, Scooters and Auto rickshaws (using fuel Petrol/CNG/LPG) <p>Benefits</p> <ul style="list-style-type: none"> - Quick start and excellent acceleration - Better power to wheels - Smooth clutch/ Gear performance - Potential to reduce fuel consumption due to oil viscomatrix - Keeps engine components clean - Reduced maintenance & operating costs - Capable to Control Noise, Vibrations at High speed - Optimum Fuel Economy
<p>eNDURA 4T Gen NXT</p> <p>Total Endurance</p>	15W30	<p>JASO T903 API SM/SN/ JASO MA2</p> <p>Meet Specification for Valve Train Wear (VTW)</p>	<p>Designed to deliver total Endurance - Excellent shield & performance for new Generation Bikes for higher capacity engines, capable to deliver high power, smooth Clutch performance & torque. This oil is formulated using Unique Additive Engineering with Thermally stable Base oils & High shear stable VI for performance reliability under demanding conditions.</p> <p>Application</p> <ul style="list-style-type: none"> - Latest generation Motorcycles (recommended for 125CC and above Bikes) - Passionate Bikers who need Maximum Riding Comfort & Long engine Life <p>Benefits</p> <ul style="list-style-type: none"> - Quick start and excellent acceleration - Better power to wheels - Smooth clutch /Gear performance - Potential to reduce fuel consumption due to oil viscomatrix - Keeps engine components clean - Reduced maintenance & operating costs - Capable to Control Noise, Vibrations at High speed - Optimum Fuel Economy



PRODUCTS	VISCOSITY GRADE	SPECIFICATIONS	DESCRIPTION & APPLICATION
eNDURA 4T High End	15W50	API SL, JASO MA2	<p>eNDURA 4T High End 15W-50 is a premium quality semi-synthetic engine oil for lubrication of four stroke engines of high powered motorcycles. These motorcycles run hotter due to extreme on-road and off-road performances which accelerates engine wear and deteriorate engine oil life due to formation of rapid oxidation & sludge.</p> <p>Application Recommended for use in all high power 4-stroke motorcycles</p> <p>Benefits Very good PICK UP & high POWER: Ensures smooth clutch performance, high power output and faster pickup in both regular and extreme conditions</p> <p>ENGINE PROTECTION: Premium additive technology protects the engine during start up and at higher running temperature, thereby increasing engine life.</p> <p>SLUDGE CONTROL: Superior oxidation control reduces sludge formation in engine oil</p>
<p>eNDURA Scootec</p> <p>Total Endurance</p> <p>Don't Use Motorcycle oil as it is Gearless</p>	10W30	JASO T903 API SL/ JASO MB	<p>Semi-synthetic technology for Gearless Scooters</p> <p>Formulated using Scooter Boosters with a Different Base oil combination to provide semi synthetic properties</p> <p>The oil helps: Maintain friction requirements, protecting the engine parts, Ideal level fuel consumption, gives the feel of a new Scooter</p> <p>The oil is capable to bear the severe stress and hard operating conditions in the dense traffic of Urban cities/ Metros.</p> <p>Application eNDURA Scootec is Suitable for all models of 4-stroke gearless scooters</p>
eUROtech	20W50 10W30 10W40	APISL/ CF	<p>Petrol engine oil formulated using superior quality high viscosity index base oils and select additives to fight operating conditions & temperatures.</p> <p>Application Recommended for all Petrol cars, especially older petrol cars</p> <p>Benefits</p> <ul style="list-style-type: none"> - Superior engine cleanliness owing to detergent and dispersant additive chemistry - Shields engine components against rust and corrosion - Compatible with catalytic converters - Increased viscosity & volatility control help lower oil consumption
eUROtech Super SM	5W-30 10W30 10W40	SAPI SM / CF	<p>Supreme quality petrol engine oil for use in modern petrol cars to meet stringent lubrication requirements of Hi-tech engines. It is formulated using the state-of-the-art additive technology with high viscosity index base oils.</p> <p>Application Recommended for ultra-modern petrol cars that are powered by engines with advanced technolog</p>

PRODUCTS	VISCOSITY GRADE	SPECIFICATIONS	DESCRIPTION & APPLICATION
eUROtech Super SM			<p>Benefits</p> <ul style="list-style-type: none"> - Protection of engine components against wear, rust and corrosion - Excellent thermo-oxidative stability leading to Less thickening of oil - Ensure smooth operation of engine in all climatic conditions - Compatible with catalytic converter
INDOCHEM OLIVE Green	20W50	API CF/ SF	<p>Superior quality Gas engine oil, developed for vehicles operating on Compressed Natural Gas (CNG), LPG & Dual Fuel.</p> <p>Application Recommended for use in Buses, Taxis, Cars, Auto rickshaws (4 stroke)</p> <p>Performance Benefits</p> <ul style="list-style-type: none"> - Suitable for use in all seasons - Helps in reducing oil consumption - Extends oil life due to excellent oxidation & nitration resistance - Optimized ash content prolongs the life of valves & spark plugs - Keeps piston/engine clean, ensuring smooth engine operation - Compatible with catalytic exhaust system fitted in the vehicle
INDOCHEM OLIVE Green	15W40 20W50	API CF4	<p>Superior quality Gas engine oil, developed for vehicles operating on Compressed Natural Gas (CNG), LPG & Dual Fuel.</p> <p>Application Recommended for use in Buses, Taxis, Cars, Auto rickshaws (4 stroke)</p> <p>Performance Benefits</p> <ul style="list-style-type: none"> - Suitable for use in all seasons - Helps in reducing oil consumption - Extends oil life due to excellent oxidation & nitration resistance - Optimized ash content prolongs the life of valves & spark plugs - Keeps piston/engine clean, ensuring smooth engine operation - Compatible with catalytic exhaust system fitted in the vehicle
INDOCHEM dYEZL <i>Auto Rikshaw</i>	15W40 20W40	API CF4	<p>A premium Diesel Engine oil for lubrication of 4 stroke Auto Rickshaws running on Diesel. Formulated using severely hydro-processed base oils and appropriate additive chemistry.</p> <p>Performance Level</p> <ul style="list-style-type: none"> - API CF4 - SAE 15W40 <p>Performance Benefits</p> <ul style="list-style-type: none"> - Keep engine components clean - Provide excellent protection from wear, corrosion and deposits - Enhanced oxidation stability ensures reduced oil thickening and extends engine & oil life

CNG ENGINE OILS - 3 WHEELER, PASSENGER CAR



DIESEL ENGINE OILS
3 WHEELER 4 STROKE



	PRODUCTS	VISCOSITY GRADE	SPECIFICATIONS	DESCRIPTION & APPLICATION
PASSENGER CARS / SUVs ↓	INDOCHEM dYEZL SUVs	15W40	API CF4	<p>A Premium quality semi-synth diesel engine oil designed for Diesel Passenger cars, Multi Utility Vehicles (MUVs) and Sports Utility Vehicles (SUVs).</p> <p>Application Recommended for use in latest Diesel Passenger cars, Multi Utility vehicles (MUVs) and Sports Utility Vehicles (SUVs)</p> <p>Performance Benefits</p> <ul style="list-style-type: none"> - Excellent cranking & pick-up - Improved driving experience - Superior Engine cleanliness - A good balance Engine oil in terms of fuel economy & durability - Longer oil & engine life ensuring reduced maintenance
	INDOCHEM dYEZL SUVs	10W30 10W40 15W40	API CH4 / CI4	<p>Premium quality semi-synthetic exclusive diesel engine oil designed for Diesel Passenger cars, Multi Utility Vehicles</p> <p>Application Recommended for use in latest Diesel Passenger cars, Sports Utility Vehicles (SUVs) , Multi Utility vehicles (MUVs)</p> <p>Performance Benefits</p> <ul style="list-style-type: none"> - Excellent engine cleanliness - Superb pick-up , better driving experience - Capable of providing better fuel economy & durability - Superior oxidation stability provides longer engine & oil with reduced maintenance
HEAVY DUTY DIESEL ENGINE OILS - COMMERCIAL VEHICLES ↓	INDOCHEM dYEZL MULTIGRADE	15W40 20W40	API CF/ CD/ SF IS 13656:2002 Type EDL2 & EPL2	<p>This is superior quality multigrade oil blended with high SSI Viscosity Index and contains well balanced group of additives, to provide high detergency, dispersancy and anti oxidation properties.</p> <p>Application Use in Multi-utility vehicles fitted with high speed naturally aspirated or Turbo charged diesel engines including Heavy Duty Commercial Vehicles, Light Commercial Vehicles.</p> <p>Vehicles operating at low speed and high torque conditions that are prevalent in prolonged city stop & go driving conditions and also in hilly regions.</p> <p>Oil has Petrol credentials can be used in old model Petrol cars</p> <p>Performance Benefits</p> <ul style="list-style-type: none"> - Good resistance against wear in engine parts in all operating conditions - Excellent thermal and oxidation stability - Takes care of engine components against rust and corrosion - Ensures smooth operations of engine in all climatic conditions

PRODUCTS	VISCOSITY GRADE	SPECIFICATIONS	DESCRIPTION & APPLICATION
dYEZL TURBO	15W40 20W40	API CF4 Plus/SG MB 228.1 Volvo VDS ACEA A2B2 IS 13656:2002 Type EDL5/ EPL2 MIL-L-2104E	<p>Diesel Engine Oil formulated with superior quality base oils, high shear stable VI Improver, High performance detergent-dispersant chemistry. Helps keeping the engine clean, preventing premature oil thickening.</p> <p>Suitable for use in all seasons with Features such as Long drain & Prolonged engine life . It is specially recommended for use in vehicles meeting EURO I & II norms.</p> <p>Application Recommended for heavy & light commercial vehicles, Passenger cars, Tractors, multi utility vehicles & jeeps, earthmoving machinery & Construction equipment.</p> <p>Benefits</p> <ul style="list-style-type: none"> - Excellent lubrication - Good TBN retention leading to excellent protection against corrosive wear - Keeps engine clean - Reduced oil consumption
dYEZL ADVANCE HDDEO Long drain Oil Right FIT in all seasons	15W40	API CH4/ CI-4, API SL, ACEA E7, MB228.3, 229.1, VOLVO-VDS3, CUMMINS 20077 Meets EURO II & III Emissions norms	<p>Top of the Diesel engine oils, fortified with Superior dispersant/ detergent additive technology with high shear stable viscosity improvers. The oil is capable to care Heavily loaded engine parts from rust/ oxidation/ corrosion/ Piston cleanliness.</p> <p>Application New generation Diesel Engines of Heavy Commercial Multi Utility as well as Small Cars e.g. Trucks, buses, SUVs, Diesel passenger cars, Volvo vehicles, Volvo earthmoving machinery, DG sets</p> <p>This oil can also be used for vehicles requiring API CH4, CG-4 or CF-4 oils.</p> <p>Benefits</p> <ul style="list-style-type: none"> - Improved wear protection to valve train & critical components leading to Sustain engine durability/ increased engine life/Reduced maintenance cost - Excellent Power & soot handling where EGR is used and are meant for use where diesel fuels ranging in sulfur content up to 0.5% weight. - Excellent soot handling capability & control over oil thickening ensures Lower pressure drop across filters and smooth engine operation throughout the service life
dYEZL Premium E7 GEN NXT CI4 Plus A balance Chemistry for Bharat III Engines	10W40 15W40	ACEA E7: API CI-4 PLUS JASO DHD-1: CAT ECF-2 CUMMINS CES 20076/78 DDC Power guard 93K214 Volvo VDS 3	<p>Designed using unique Dispersants detergents (UDD technology) to provide Advanced lubricant performance in modern, low emission diesel engines, including those with EGR, operating under a wide variety of service conditions. A Balanced formulation to maximize the engine durability/ long life and extended oil drain.</p> <p>Application</p> <ul style="list-style-type: none"> - It is a truly versatile product which can be used in Bharat stage III trucks (e.g. Tata Cummins Engine), buses and off road vehicles. - It is a mixed fleet diesel engine oil especially designed to provide excellent protection to fleet of vehicles from a variety of manufacturers.

