

# PETROLEUM TECHNOLOGIES

## HASNAIN ENTERPRISES

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A-10-A, S.I.T.E., Karachi-75700 Email:petroleumtechnologies@yahoo.com  
Tel: 021-32552057, 32554255, Fax: 021-32554255 Mobile: 0346-4031054, 0336-4031054

### COMMERICAL ENGINE OIL

**PETROLEUM XD-3** Multipurpose, low ash “Universal Engine Oil” recommended for both 4-stroke, turbocharged and supercharged diesel engines not requiring a multigrade oil. It is highly effective in controlling wear and deposits and has long drain capabilities.

Grade	SAE 10,30,40 AND 50
Type/quality	API Service CD and SF CCMCG2/D2 MIL-L-2104D/46152B, MB 227.1
Application	Recommended for a wide range of automotive diesel and gasoline powered equipment as well as industrial engines such as Caterpillar, Cummins, Mack Truck EO-J/K2 and Detroit diesel engine, Allison C-3 Transmission oil

Note: note recommend for GEM-EMD units with Silver bearing

#### Typical Inspections

TESTS	10	30	40	50
Gravity,API @15.6 6 °C	31.0	36.4	25.6	25.1
Flash Point, °C	212	240	252	254
Color, ASTM	3.5	4.5	5.5	6.0
Viscosity, cst @ 40 °C	27	106	1254	219
Viscosity, cst @ 100 °C	5.1	11.8	14.8	19.0
Viscosity index	119	99	96	97
Pour Point, °C	-9	-6	-6	-6
TBN, mg KOH/g	11	11	11	11

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**SPECIALIST IN CUT EMULSION, WOOL EMULSION &  
DEALS IN ALL KIND OF INDUSTRIAL OILS AND GREASES**

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**PETROLEUM XD 2040** A high detergent, heavy duty crankcase oil suitable for severe diesel engine service such as required in construction oil equipment using fuels with high sulfur content and operating under heavy loads. It was developed primarily to satisfy Caterpillar Tractor's requirement for a lubricant with 20 TBN when using fuels with 1% sulfur content. Its zinc level, however, does not qualify this oil for applications in other EMD which use silver as component in the bearing material.

Grade SAE 40  
Type/quality API Service CD and SF  
MIL-L-2104D, MIL-L-46152B, CCMCG2/D2,  
Application Automotive diesel engine using high sulfur diesel fuel and requiring 20TBN oil

### Typical Inspections

TESTS	
Gravity,API @15.6 °C	24.8
Flash Point, COC °C	234
Color, ASTM	7.0
Viscosity, cst @ 40 °C	141
Viscosity, cst @ 100 °C	14.2
Viscosity index	99
Pour Point, °C	20
TBN, mg KOH/g	-12

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**PETROLEUM 2040 -** A high alkaline reserve automotive and railroad diesel engine oil developed specifically to combat corrosive wear caused by relatively high sulfur content fuels. It provides excellent oxidation and deposit control, improved dispersancy and detergency due to its higher level of alkalinity. Its zinc free quality qualifies it for use with engines in railroad, marine, industrial power and drilling rigs operated on fuels with as high as 1.5% Sulfur. It is recommended for use in medium to high speed diesel engine using high sulfur distillate fuels.

Grade	SAE 40
Type/quality	API Service CD GE and GM-EMD Generation IV Lubricant
Application	Diesel and gasoline-powered equipment; general Electric, Caterpillar ,GM-EMD and other railroad- type diesel engine requiring a zinc-free oil.

### Typical Inspection

TESTS	
Gravity,API @15.6 6 °C	24.1
Color, visual	Dark Brown
Viscosity, cst @ 40 °C	144
Viscosity, cst @ 100 °C	14.3
Viscosity index	69
Pour Point, °C	20
TBN, mg KOH/g	-3

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**PETROLEUM RAILROAD OIL EXTRA -** Crankcase lubricant recommended for railroad diesel engine. It is formulated with a carefully balanced additive system to provide superior control of engine deposits, wear, and acidity with excellent silver bearing protection characteristics of a superior railroad lubricant. It is recommended to meet more serve service applications particularly in engines burning high sulfur diesel fuels.

Grade	SAE 40
Type/quality	API Service CD GE and GM-EMD Generation IV Lubricant
Application	Diesel powered locomotives, especially General Electric and GM-EMD diesel engines.

### Typical Inspections

TESTS	
Gravity,API @15.6 °C	24.5
Flash Point, COC °C	238
Color, visual	8.0
Viscosity, cst @ 40 °C	152
Viscosity, cst @ 100 °C	14.8
Viscosity index	97
TBN, mg KOH/g	13

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**PETROLEUM HDX -** Premium quality, low ash, heavy-duty crankcase oil with carefully balanced additives for superior dispersancy and detergency.

Grade SAE10, 30, 40 and 50  
Type/quality API Service CC and SF  
Application Diesel and gasoline –powered equipment under mild to moderate operating conditions.

### Typical Inspections

TESTS	10	30	40	50
Gravity,API @15.6 °C	30.2	26.8	26.2	25.6
Flash Point, COC °C	212	240	252	254
Color, ASTM	<3.0	<4.0	4.5	<5.0
Viscosity, cst @ 40 °C	32	107	148	214
Viscosity, cst @ 100 °C	5.5	11.6	14.6	18.8
Viscosity index	106	95	98	97
Pour Point, °C	-12	-9	-6	-6
TBN, mg KOH/g	6	6	6	6

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**PETROLEUM HD** - Heavy duty, single grade motor oil recommended for diesel engines not requiring multigrade oil. It provides satisfactory performance in either high speed, over-the road or stop –and –go service due to good chemical stability, excellent detergency and low tendency to form carbon deposits.

Grade SAE 10, 30, 40 and 50  
Type/quality API Service CC and SD  
Application Automotive diesel and gasoline engines under mild operating conditions.

### Typical Inspections

TESTS	10	30	40	50
Gravity,API @15.6 6 °C	30.3	27.1	26.4	25.9
Flash Point, COC °C	222	254	256	258
Color, ASTM	2.0	3.5	4.0	4.5
Viscosity, cst @ 40 °C	32	108	148	218
Viscosity, cst @ 100 °C	5.4	11.7	11.7	18.8
Viscosity index	104	97	97	96
Pour Point, °C	-12	-9	-6	-6
TBN, mg KOH/g	5	5	5	5

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**PETROLEUM EXTRA MOTOR OIL** - A multigrade motor oil for moderate to serve duty service and designed to meet the oil quality requirements of 1961 diesel engine s and 1980 gasoline engine warranty requirements. It provides better anti-wear performance, rust prevention, and engine cleanliness than regular motor oil.

Grade                    SAE 20W 40  
Type/quality            API Service SF and CC  
Application             Gasoline diesel engines

### Typical Inspections

TESTS	
Gravity,API @15.6 6 °C	27.3
Flash Point, COC °C	248
Color, ASTM	3.5
Viscosity, cst @ 40 °C	129
Viscosity, cst @ 100 °C	14.7
Viscosity index	116
Pour Point, °C	-9
TBN, mg KOH/g	7

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**PETROLEUM MOTOR OIL -** Heavy duty, single grade motor oil recommended for diesel engines not requiring multigrade oil. It provides satisfactory performance in either high speed, over-the road or stop –and –go service due to good chemical stability, excellent detergency and low tendency to form carbon deposits.

Grade SAE 30 and 40  
Type/quality API Service SD and CC  
Application Automotive diesel and gasoline engines under mild operating conditions. It can also be used for diesel engines.

### Typical Inspections

TESTS	30	40
Gravity,API @15.6 °C	27.1	26.4
Flash Point, COC °C	254	256
Color, ASTM	3.5	4.0
Viscosity, cst @ 40 °C	108	148
Viscosity, cst @ 100 °C	11.7	14.5
Viscosity index	97	96
Pour Point, °C	-9	-6
TBN, mg KOH/g	5	5

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**PETROLEUM 2T PREMIUM -** The latest premium quality motorcycle oil recommended for Yamaha, Suzuki, and Kawasaki motorcycle and other 2 stroke engines where fuel is mixed with the oil. It is formulated using the latest additive technology for this type of product resulting in a quality level exceeding both TC and Japanese industry standard. It, therefore, assures the users of better engine protection resulting in longer engine life. Due to its high detergency, positions, liners, and exhaust ports are kept clean.

The performance of Petroleum 2T Premium was locally evaluated under serve operating condition which demonstrated that this new technology product can be used at fuel to oil ratio of 40:1 in comparison to the 20:1 ratio for competitive products in the market which translates to a 50% reduction in oil usages by the motorcycle owner.

Petroleum 2T Premium can be directly added to the gasoline during tank fill-up. It can also be poured into the oil reservoir if the motorcycle is equipped with an auto lube system.

Grade	SAE 30
Type/quality	Two-stroke gasoline engine lubricant
Application	Small passenger cars, scooters, motor-cycles tricycles, lawn mowers, small tractors, chainsaws, and other portable equipment powered by two –stroke gasoline engines.

### Typical Inspections

TESTS	
Gravity,API @15.6 °C	27.3
Flash Point, COC °C	3.5
Color, ASTM	238
Viscosity, cst @ 40 °C	90.8
Viscosity, cst @ 100 °C	10.6
Viscosity index	99

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**PETROLEUM STM** - Low cost crankcase oil designed for mild services or for service where the oil make-up rate does not justify the use of a premium quality oil.it is non-detergent, high viscosity index motor oil.

Grade SAE 30 and 40  
Type/quality API Service SA,  
Application Non-critical gasoline engines requiring non-detergent motor oil.

### Typical Inspections

TESTS	30	40
Gravity,API @15.6 °C	28.0	26.3
Flash Point, COC °C	252	246
Color, ASTM	2.5	4.5
Viscosity, cst @ 40 °C	90	152
Viscosity, cst @ 100 °C	10.5	14.1
Viscosity index	98	97

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**PETROLEUM GX** - The highest quality general purpose type gear lubricant suitable for heavy loads sustained at high speeds and subjected to high torque. Fortified with extreme pressure additives, it is used in certain hypoid or spiral-bevel gear, transmission or gear boxes and limited-slip differentials of both highway vehicles. The multigrades meet both the low and high-temperature requirements shown in the SAE J306 table.

Grade                      Monogrades -SAE 90 and 140  
                                    Multigrades - 80W90 and 85W/140  
Type/quality              API Service GL -5  
Application              Hypoid or spiral-bevel gears, limited-slip differentials, and  
                                    transmissions

### Typical Inspections

TESTS	90	140	80W90	85W140
Gravity,API @15.6 °C	24.4	22.8	25.9	24.1
Flash Point, °C	210	226	210	220
Color, ASTM	7.0	7.5	3.5	4.5
Viscosity, cst @ 40 °C	204	489	134	346
Viscosity, cst @ 100 °C	17.5	30.4	13.9	25.4
Viscosity index	92	91	100	96
Pour Point, °C	-9	-9	-24	-12

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**PETROLEUM 90& 140** - A general purpose, extreme pressure gear oil which provides excellent performance in highway vehicles and off-highway, farm and construction equipment. It provides dependable lubrication performance in passenger cars, trucks, tractors and other vehicle, at all service levels. It is suitable for services top-up of limited slip axles and for most worm gear drives.

Grade	SAE 90 and 140
Type/quality	API Service GL -4
Application	Manual transmissions, hypoid or spiral-bevel gear, worm gears, limited-slip differentials under serve, moderate or light condition.

### Typical Inspections

TESTS	90	140
Gravity,API @15.6 °C	25.0	22.9
Flash Point, COC °C	224	234
Color, ASTM	8.0	>8.0
Viscosity, cst @ 40 °C	208	552
Viscosity, cst @ 100 °C	17.4	33.0
Viscosity index	90	91
Pour Point, °C	-6	-6

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**PETROLEUM GST** - Straight mineral gear lubricant for all automotive uses where stable, non-additive oils are suitable. It is primary used where an extreme pressure type gear oil is not necessary or where high oil make-up rate does not justify used of a premium quality lubricant.

Grade SAE 90 and 140  
Type/quality API Service GL -1  
Application Manual transmissions, differentials, spiral-bevel, rear axle assemblies, and some worm gear drive requiring straight mineral gear lubricant.

### Typical Inspections

TESTS	90	140
Gravity,API @15.6 °C	12.7	9.2
Flash Point, COC °C	228	285
Color, Visual	Olive Green	Olive Green
Viscosity, cst @ 40 °C	365	1124
Viscosity, cst @ 100 °C	16.9	27.0

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**PETROLEUM ATF PREMIUM** - A premium automatic and power transmission fluid for passenger cars, trucks and heavy equipment. It is formulated to meet the stringent requirements for oxidation stability, rust and corrosion protection, minimum fluid loss through vaporization, compatibility to synthetic seals, high viscosity index and efficient power fluid transmission.

Grade SAE 20  
Type/quality Automatic transmission fluid  
Application Automatic transmission, power steering, hydraulic system, torque converts and manual transmission of front-wheel—drive cars.

### Typical Inspections

TESTS	
Gravity,API @15.6 °C	29.8
Flash Point, COC °C	196
Color, ASTM	Purple
Viscosity, cst @ 40 °C	38.5
Viscosity, cst @ 100 °C	7.4
Viscosity index	161

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**PETROLEUM TF-38** - Hydraulic transmission fluid for torque converters and gear units of many commercial and industrial vehicle .it is formulated to provide protection against corrosion and deposit formation. Recommended for on –highway service in Allison AT, MT, HT and V series transmissions.

Grade	SAE 20
Type/quality	GM Allison Type C-2 Fluid CAT TO - 2
Application	On highway service in Allison AT, MT, HT and V series transmissions. Hydraulic system and torque converters of GM for on –highway services. For Hino and Isuzu requiring an automatic transmission fluid.

### Typical Inspections

TESTS	
Gravity,API @15.6 °C	29.3
Flash Point, °C	192
Color, ASTM	4.0
Viscosity, cst @ 40 °C	38.9
Viscosity, cst @ 100 °C	7.2
Viscosity index	151

**PETROLEUM TDF 50** - A premium multipurpose fluid recommended specifically for use in farm tractors that employ a combined transmission differential hydraulic fluid. It

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contains additives capable of performing the following major function in a modern farm tractor;

- 1) Lubricate the transmission, differential and final gears.
- 2) Act as the power steering, power brake, power take-off and implement drive fluid.
- 3) Provide a medium with the correct friction and heat transfer characteristics for proper operation of the tractor wet brake and power take-off unit.

Type/quality Meets John Deere J20A; Massey-Fergusson H-1110, 1127, 1129 A 1135; Allis Chalmers power Fluid 821; J.I. Case J 1C-143, 145; Ford M2C86-a, M2C 134-A.

Application Transmission, differential, hydraulic system, wet brake mechanism and power take-off units.

### Typical Inspections

TESTS	
Gravity,API @15.6 °C	28.1
Flash Point, COC °C	21.4
Color, ASTM	6.5
Viscosity, cst @ 40 °C	54
Viscosity, cst @ 100 °C	8.6
Viscosity index	135