

## TRUST S

Trust S oils are blended with high quality base stocks of high viscosity index with advanced additive which provides strong performance for diesel engines. They are specially recommended for high turbo charged and heavy load four stroke diesel engines.

### APPLICATION

Trust S series is especially Suitable for engines of complex fuel (e.g with high sulphur content) low speed but high torque output. It is also suitable for non-direct injection diesel engines of high pressure turbo charged, large power and overloading, requiring oils of CF grade (including CD and CC)

### PERFORMANCE/SPECIFICATIONS

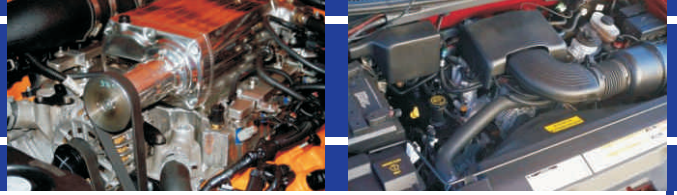
- API: CF/SF
- CCMC: D3 - G3 - PD2
- CATERPILLER: TO - 2
- ALLISON: C - 4
- US MILITARY: L - 2104E, L - 46152B

### BENEFITS

- Providing better anti - wear protection than CD grade diesel engine oil, further decreasing wear of engine effectively prolonging service life of engine.
- Excellent detergency and dispersancy, ensuring engines clean when using various kinds of fuel and effectively preventing piston sticking.
- Good oxidation stability.
- Good anti - foaming property, ensuring sufficient oil supply.
- Good compatibility with rubber effectively protecting sealed material against leakage.

### PHYSICAL CHARACTERISTICS

Trust S	Method	10w	30	40w	50
Appearance	Visual	10w	30	40w	50
Density@ 15c gr/ml	ASTM D1298	C&B	C&B	C&B	C&B
Viscosity@100c cst	ASTM D445	6.5	11.0	15	19.0
Viscosity@40c cst	ASTM D445	37		149.5	220
Viscosity Index	ASTM D445	110	102	100	97
Flash point	D92	205	240	253	265
Pour point	D97	-27	-20	-12	-9
Total Base Number mg KOH/ g	ASTM D2896	8.5	8.5	8.5	8.5
Sulphated Ash%	ASTD 874	1.2	1.2	1.2	1.2



## HIGH PERFORMANCE INDUSTRIAL GEAR OIL

Trust EP Oils are extra high performance industrial gear oils formulated from high quality mineral oil and sulphur phosphorus extreme pressure additives to meet the lubrication requirement of closed gear boxes and lubrication system.

### APPLICATION

They are recommended for industrial gears for conveyers agitators, dryers, extrudes, mixers, pumps (including oil well pumps)e.t.c and other heavy duty applications

It is also used in marine gears including main propulsion, centri fuges deck machinery.

### PERFORMANCE / SPECIFICATIONS

- USS : 22U
- AGMA : 250.04
- L - CKD

### BENEFITS

- Excellent EP wear protection for gear and bearings
- Excellent resistance to oxidation and standing high-temperature stability
- Corrosion resistance on soft metals allows problem-free operation in a wide range of industrial equipment
- Excellent demulsibility provides satisfactory service at extend oil drain interval even when water contamination occurs.

### TYPICAL CHARACTERISTIC

Trust EP	METHOD	100	150	220	320	460
Appearance	Visual	C&B	C&B	C&B	C&B	C&B
Density gm / ml	ASTMD 1298	0.890	0.896	0.900	0.905	0.908
Km vis @ 100c cst	ASTMD 445	10.88	14.96	18.78	24.0	29.90
Km vis @ 40c cst	ASTMD 445	96	155	223	320	450
Viscosity Index	ASTMD 2270	97	96	95	95	95
Flash point COC	ASTMD 92	200	210	215	220	227
Capper comosion (100c, 3h)	ASTMD 130	1b	1b	1b	1b	1b
Foam Seq 11 ml	Nil	Nil	Nil	Nil	Nil	Nil
Pour point c	ASTMD 97	-12	-10	-9	-9	-9

**HEALTH & SAFETY:** This product is not classified as hazardous under the E C Dangerous Substances and preparations directives. It does not require any special care other than the normal practices for handling petroleum products.





## TRUST GEAR HDG

Multi - purpose Gear Oil

Trust Gear HDG is blended with highly refined base stock of high viscosity index and well - chosen sulphur and phosphorus multi - functional additives by internationally advanced process.

It met the strict application requirement of drive axle of various vehicle manufacturers, large scale military or civil mixed fleet, and construction machinery.

### APPLICATION

Trust Gear HDG is suitable for lubrication of drive axle and some transmission gears, especially for vehicles with hyperbolic gears, adaptable to conditions of high speed / low torque, low speed/ large torque or high speed/ strock load

### PERFORMANCE / SPECIFICATION

API : GL - 5  
MIL : L2105D  
MB : 235.6  
GB : 13895 - 92

### BENEFITS:

- Excellent extreme pressure and stock and resistance abilities, effectively preventing chemical actions such as corrosion or spalling on surface of gear.
  - Outstanding thermal resistance and oxidation stability, effectively reducing formation of oxide.
  - Well - chosen sulphur and phosphorus compound additive, providing outstanding anti - wear property and carrying capacity, being capable of working in such strict conditions as climbing slope with heavy load, emergency brake and so on.
- Balanced formulation, producing good anti - corrosion and anti - rust properties.

### TYPICAL CHARACTERISTIC

	METHOD	85w-90	85w-90
Appearance	Visual	C&B	C&B
Density @ 15°c gm/ml	ASTMD 1298	0.903	0.921
Km vis @ 100°c cst	ASTMD 445	16.8	27.09
Km vis @ 40°c cst	ASTMD 445	165	271.50
Viscosity Index	ASTMD 2270	100	98
Flash point	ASTMD 92	228	230
Pour point	ASTMD 97	-20	-16
Copper corrosion	ASTMD 30	1b	1b
Foaming characteristic			
Seq II	ASTMD 892	NIL	NIL



## TRUST AH

TRUST AH grades are blended from high refined, high viscosity index base stocks with premium additive packages. The additive packages. The additive content has rust preventive properties wear characteristic and good oxidation stability. It works at elevated temperature.

### APPLICATION

Trust AH are suitable for moderate or high - pressure hydraulic systems, including hydraulic devices used in mining, metallurgy and plastic processing fields. It can also be used in gear - box and bearing lubrication circulatory system on high load conditions.

### PERFORMANCE / SPECIFICATION

These oils meet

- IS : 10522-93
- DN : 51524
- GB : 11118.1 L-HM

### BENEFITS

- Outstanding anti-wear performance to reduce wearing of hydraulic pumps and keep hydraulic system pressure stable
- Excellent oxidation and hydraulic stability anti-rust and anti corrosion characteristics.
- Good seal compatibility, giving effective protection for rubber seal materials to avoid leakage
- Good foam resistance and air release performance.

### TYPICAL CHARACTERISTIC

Trust AH	METHOD	22	32	46	68	100
Appearance	Visual	C&B	C&B	C&B	C&B	C&B
Density	ASTMD 1298	0.869	0.870	0.875	0.880	0.888
Km vis @ 100 <sup>o</sup> c cst	ASTMD 445	4.11	5.47	6.90	8.53	11.5
Km vis @ 40 <sup>o</sup> c cst	ASTMD 445	20.0	33.0	48.0	67.0	104
Viscosity Index	ASTMD 2270	105	100	98	97	97
Flash point	ASTMD 92	190	200	210	210	220
Pour point	ASTMD 97	-20	-15	-9	-9	-9
Foam Characteristics	ASTMD 92					
Seq 11 ml		Nil	Nil	Nil	Nil	Nil

**HEALTH & SAFETY:** This product is not classified as hazardous under the E C Dangerous Substances and preparations directives. It does not require any special care other than the normal practices for handling petroleum products.



## TRUST GREASE MULTIPURPOSE GREASE

TRUST multipurpose grease is Lithium base grease made from deeply refined mineral oil with rust and oxidation inhibitors and other additives. It is adaptable to different lubrication devices and can substitute calcium and sodium base grease.

### APPLICATION

Trust multipurpose grease is suitable for lubricating rolling bearings, sliding bearing and other friction points of general mechanical equipments. It can be used up to reason high temperature of 140<sup>o</sup>c

### PERFORMANCE / SPECIFICATION

meet the performance specification of GB 7324 - 94  
NLGI : 2 & 3

### BENEFITS

- Multi - purpose with excellent mechanical and oxidation stability
- Good water resistant and anti - rust properties.
- Do not contain any heavy metal and other chemicals that do not harm to human health and environment

### TYPICAL CHARACTERISTIC

Trust Grease EP	METHOD	1	2	3	
Appearance	Visual	light yellow	to brown	smooth	buttery
Worked penetration, 0.1mm	ASTMD 217	320	280	232	
Dropping point °c	ASTMD 566	197	200	200	
prolonged worked cone					
Penetration(10sw),0.1mm	ASTMD 217	331	289	250	
Water washout (38,1h)	ASTMD 1264	2.40	1.60	0.75	





## **TRUST XP PREMIUM MULTIGRADE DIESEL ENGINE OIL**

TRUST XP is premium quality commercial purpose turbo - charged diesel engine oil blended with high performance additives to meet and exceed the most demanding lubrication requirements for turbo - charged and super high performance (SHPD) Diesel engines of modern trucks, passenger cars and application

### **APPLICATION**

Trust XP engine oils are recommended for all new generation diesel vehicles where CF -4 product is required. They are suitable for use in super turbo-charged **heavy duty diesel direct injection engines** where APICF-4, CE, CD are recommended also fit for on highway heavy duty trucks.

### **PERFORMANCE / SPECIFICATIONS**

- API : CF-4/SJ
- ALLISON : C- 4
- MB : 228.3
- CUMMINS : CES20075
- MACK : EO-K2
- VOLVO : VDS
- CAT : TO -2

### **BENEFITS**

- Outstanding anti-oxidation property and dispersancy effectively avoids congnitination of piston rings and keep engine cleaner
- Better anti-wear properties effectively extend engine life and reduce oil consumption
- It provides protection for modern heavy-duty diesel engines
- It provides easier start-up properties and reduce the wear of engines when start.

### **PHYSICAL CHARACTERISTIC**

Trust XP	METHOD	10w	150w40
Appearance	Visual	C&B	C&B
Density @ 15 <sup>o</sup> c gm/ml	ASTMD 1298	0.889	0.890
Km vis @ 100 <sup>o</sup> c cst	ASTMD 445	14.50	15.00
Km vis @ 40 <sup>o</sup> c cst	ASTMD 445	108	115.0
Viscosity Index	ASTMD 2270	137	135
Flash point COC	ASTMD 92	235	235
Pour point c	ASTMD 97	-30	-30
Total base NO. mgKOH/g	ASTMD 2896	10	10
Sulphated Ash	ASTMD 874	0.97	0.97



## **TRUST GEAR PREMIUM AUTOMOTIVE GEAR OIL**

Trust gear oil is heavy-duty automotive gear oils blended with sulphur / phosphorus extreme pressure additives. Its ensure smooth gear shifts and provide excellent extreme pressure characteristics and are suitable for severe auto gear load conditions.

### **APPLICATION**

It is recommended for use in gear box and Rear Axle of automotive and off - highway Vehicles employing high powered **gears operating under high speed/shock loads**. It can also be used in worm gear boxes.

### **PERFORMANCE / SPECIFICATIONS**

- meets API : GL - 4
- US MILL : L2105D
- MB : 235.5

### **BENEFITS**

- Excellent Load-carrying properties
- Good thermal and oxidation stability
- Very high anti-wear properties
- Excellent defoaming property.

### **TYPICAL CHARACTERISTIC**

Trust Gear	METHOD	85w-90	85w-140
Appearance	Visual	C&B	C&B
Density @ 18c gm/ml	ASTMD 1298	0.903	0.910
Km vis @ 100c cst	ASTMD 445	17.0	27.5
Km vis @ 40c cst	ASTMD 445		295.5
Flash point COC	ASTMD 92	200	220
Pour point c	ASTMD 97	-21	-10
Copper corrosion	ASTMD 130	2a	2b
Foaming	ASTMD 892	Nil	Nil

**HEALTH & SAFETY:** This product is not classified as hazardous under E.C Dangerous substances and Dangerous preparations directives. It does not require any special care other than the normal practices for handling petroleum products.



## TRUST HD PREMIUM MONOGRADE DIESEL OIL

TRUST HD is heavy duty monograde diesel engine oil formulated with high quality solvent refined paraffinic base oil with balanced additives packaged to meet the lubrication requirement of modern diesel used in on-road and off road applications. The high performance additives used in Trust HD is designed to provide required performance in the area of detergency, dispersancy wear protection and protection against bearing corrosion.

### APPLICATION

Trust HD oil is suitable for diesel, LPG and natural gas engines requiring API service CD or CD II types of oils. The SAE 40 grade is specifically recommended for oil bath air cleaner, chain drives, hydraulic systems of mobile equipment where the use of heavy duty motor oils is recommended. The SAE 30 AND 40 viscosity grades meet caterpillar To-2 and Allison c-4 requirements.

### PERFORMANCE / SPECIFICATION

- API : CD/SF
- US MILL :L - 2104D
- ALLISON : C-4
- CATERPILLAR : TO - 2

### BENEFITS

- High detergency and dispersancy
- Good resistance to oxidation and bearing corrosion
- Good anti wear performance.

### TYPICAL CHARACTERISTIC

Trust HD	METHOD	10W	20W	30	40	50
Appearance	Visual	C&B	C&B	C&B	C&B	C&B
Density gm / ml	ASTMD 1298	0.884	0.886	0.888	0.890	0.895
Km vis @ 100 <sup>o</sup> c cst	ASTMD 445	6.2	8.5	10.8	14.85	19.5
Km vis @ 40 <sup>o</sup> c cst	ASTMD 445	38.0	62.0	94.90	154.5	233.4
Viscosity Index	ASTMD 2270	110	106	97	95	95
Flash point	ASTMD 92	205	205	220	230	240
Pour point	ASTMD 97	-20	-20	-10	-7	-5
Total base number	ASTMD 2896	6.5	6.5	6.5	6.5	6.5
Sulphate Ash %	ASTMD 0874	0.77	0.77	0.77	0.77	0.77

**HEALTH & SAFETY:** This product is not classified as hazardous under E.C Dangerous substances and Dangerous preparations directives. It does not require any special care other than the normal practices for handling petroleum products.





## TRUST XD PREMIUM MULTIGRADE DIESEL ENGINE OIL

TRUST HD XD multigrade diesel engine oil are produced from selected high refined base stock blends with advanced technology additives specially to meet the lubrication requirements of high performance engines running on diesel gasoline and LPG operating under severe conditions.

### APPLICATION

Trust XD oils are suitable for use in both turbo - charge and naturally aspirated diesel engines in various type of service and meet the requirements of latest design and high performance of most diesel engines used in heavy-duty trucking, construction mining and farm equipment.

Trust XD may also be used in LPG fueled engines and are specially designed to meet the new EURO norms internationally.

### PERFORMANCE / SPECIFICATION

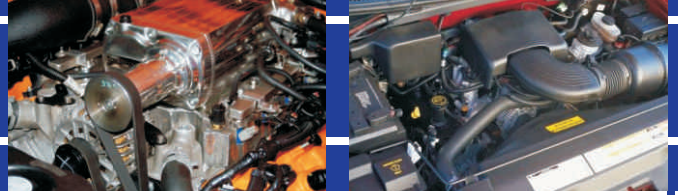
- API: CH-4/CG-4/CF-4/SL
- ACLEA : A3B3E3E5
- ALLISON : C-4
- MB : 228.3, 229.1
- MACK : EO-M PLUS

### BENEFITS

- High efficiency detergency reducing carbon deposit avoiding blockage of engine filter
- Excellent anti-oxidation and anti-acidification abilities effectively prolonging oil drain interval
- Excellent TBN retention and good anti corrosion ability.
- Stable oil film promoting strong power
- Suitable for engines using fuels with different sulphur content.

### TYPICAL CHARACTERISTIC

Trust HD	METHOD	10W-40	15W-40	20W-50
Appearance	Visual	C&B	C&B	C&B
Density gm / ml	ASTMD 1298	0.885	0.890	0.895
Km vis @ 100 <sup>o</sup> c cst	ASTMD 445	14.5	14.83	19.20
Km vis @ 40 <sup>o</sup> c cst	ASTMD 445	108	112.5	162
Viscosity Index	ASTMD 2270	137	136	135
Flash point	ASTMD 92	230	235	235
Pour point	ASTMD 97	-34	-33	-26
Total base mgKOH/g	ASTMD 02896	10.7	10.7	10.7
Sulphated Ash %	ASTMD 874	1.2	1.2	1.2



## **AUTOMATIC TRANSMISSION FLUID (ATF IIIIG) MULTI-FUNCTIONAL FLUID**

Trust automatic transmission fluid (ATF) is blended with base stock of high properly and various functional additives. It is multi-functional fluid suitable for automatic transmission of vehicles some of power steering systems and the hydraulic transmission system. The product has won recognition of transmission manufacturers and can be used in multi-vehicles automatic transmissions.

### **APPLICATION**

Trust AFT III G is suitable for automatic transmission system of vehicle. It is also used in power steering system and other hydraulic systems of construction machinery.

### **PERFORMANCE / SPECIFICATION**

- GM : DEXON IIIIG
- FM : MERCON
- ALLISON : C-4
- CAT : TO-2
- MB : 236.1/236.5

### **BENEFITS**

- Outstanding oxidation and heat stability and detergency.
- Excellent friction property providing good sense of shifting
- Preventing formation of paint film and carbon deposit.
- Excellent anti-foaming ability ensuring effective transfer of power
- Outstanding fluidity at low temperature good compatibility with rubber sealed material effectively protecting sealed material and leakage.

### **TYPICAL CHARACTERISTIC**

	METHOD	10W-40
Appearance	Visual	C&B
Density @15 <sup>o</sup> c gm / ml	ASTMD 1298	0.860
Viscosity @ 100 <sup>o</sup> c cst	ASTMD 445	7.32
Viscosity @40 <sup>o</sup> c cst	ASTD 445	34.49
Viscosity Index	ASTMD 2270	185
Flash point	ASTMD 92	198
Pour point	ASTMD 97	-40