



# Technical Data Sheet

## MASTER PLUS 500

API: CI-4/SL  
SAE: 15W40

### DESCRIPTION:

**Master Plus 500** is specifically formulated with a blend of highly refined **Group-II** base oils and specially selected additives to provide excellent performance in all recommended applications. It is a long drain and energy conserving Oil. Master Plus 500 is a high performance multi-viscosity SAE (15W-40) crankcase lubricant.

### APPLICATIONS:

Recommended for use in naturally aspirated, Turbo charged or super charged diesel, gasoline and propane engines in on-highway, off-highway, construction, farm, marine, pickup and delivery and passenger car services. Prime recommendation where extra protection is needed or where extended drain intervals are being considered. It is suitable for use in most domestic and imported diesel and gasoline engines requiring API CI-4/SL engine oil.

### BENEFITS:

- ✓ Unmatched varnish, sludge and carbon deposit control
- ✓ Longer drain intervals and lowers maintenance cost
- ✓ Increases fuel efficiency and less engine wear
- ✓ Neutralizes corrosive acid and possesses excellent shear stability for stay-in-grade viscosity performance
- ✓ Operates in lower temperature & excellent oxidation stability
- ✓ Increases fuel mileage and horsepower

TYPICAL DATA	
Product	Master Plus 500
SAE Rating	15W 40
API Performance	CI-4/SL

PHYSICAL CHARACTERISTICS		
TEST	TEST METHOD	TYPICAL VALUE
Kinematic Viscosity, cSt @100 °C	ASTM D - 445	15.0
Viscosity Index	ASTM D - 2270	139
Flash Point COC, °C	ASTM D - 92	226
Sulphated Ash, % wt.	ASTM D - 874	1.76
TBN, mg KOH/g	ASTM D - 2896	11
Pour Point, °C	ASTM D - 97	-27

<b>Packing:</b>	<b>04 Ltr – 08 Ltr – 10 Ltr – 105 Ltr – 205 Ltr</b>
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# Technical Data Sheet

## MASTER PLUS 350

API: CF-4  
SAE: 20W50

### DESCRIPTION:

**Master Plus 350** is a high performance engine oil. It is a blend of superior quality Group-II base stock and high performance additives. Master Plus 350 has detergents, anti-wear, anti-oxidation additives that help it perform under the most severe conditions. It has super stable viscosity index improver that does not shear off under severe operating conditions of high load and elevated temperatures.

### APPLICATIONS:

Master Plus 350 is a very high quality diesel engine oil developed for use in the most severe diesel engine applications of high speed, high load conditions, off or on highway and when burning diesel fuels of different quality. It is recommended for almost all types of diesel engines, whether supercharged, turbocharged or naturally aspirated. Suitable for commercial road transport, trucks, buses, tractors, generator sets and marine diesel engines where API CF-4 crankcase oils are recommended.

### BENEFITS:

- ✓ Excellent chemical stability to protect against lacquer and hard carbon deposits
- ✓ Superior wear control protection against bore polish, cam tappets and bearing wear in highly stressed engines
- ✓ Provides unique qualities required to meet the vigorous and most severe service conditions in diesel engines with excellent oxidation stability

### TYPICAL DATA

Product	Master Plus 350
SAE Rating	20W-50
API Performance	CF-4

### PHYSICAL CHARACTERISTICS

TEST	TEST METHOD	TYPICAL VALUE
Kinematic Viscosity @ 100 °C (cSt)	ASTM D - 445	19.0
Viscosity Index	ASTM D - 2270	124
Flash Point (COC) °C	ASTM D - 92	240
Sulphated Ash, % wt.	ASTM D - 874	1.19
TBN mg KOH/g	ASTM D - 2896	9
Pour Point °C	ASTM D - 97	-21

**Packing:** 04 Ltr – 08 Ltr – 10 Ltr – 105 Ltr – 205 Ltr



# Technical Data Sheet

## MASTER PLUS 300

API: CF/SF  
SAE: 20W50

### DESCRIPTION:

**Master Plus 300** is a high performance, high speed, heavy duty gasoline and diesel engine oil formulated with **Group-II** mineral base oils and selected additives to enhance oxidation stability, protection against wear and corrosion.

### APPLICATIONS:

Master Plus 300 is a high performance engine oil developed for high speed heavy duty four-stroke turbocharged or naturally aspirated diesel and gasoline engines. It is equally beneficial for off-highway vehicles and highway vehicles, tractors, construction machineries, generator sets and small diesel engines in marine service.

### BENEFITS:

- ✓ Gives protection from wear, rust and corrosion
- ✓ Excellent control against engine deposits
- ✓ Superior engine cleanliness & excellent oxidation stability
- ✓ Increases engine life and overhauling intervals
- ✓ High resistance to oxidation and thermal degradation
- ✓ Ensures TBN retention

### TYPICAL DATA

Product	Master Plus 300
SAE Rating	20W-50
API Performance	CF/SF

### PHYSICAL CHARACTERISTICS

TEST	TEST METHOD	TYPICAL VALUE
Kinematic Viscosity cSt @100 °C	ASTM D - 445	18.5
Viscosity Index	ASTM D - 2270	126
Flash Point COC, °C	ASTM D - 92	230
Sulphated Ash, % wt.	ASTM D - 874	0.83
TBN mg KOH/g	ASTM D - 2896	6.5
Pour Point °C	ASTM D - 97	-24

**Packing:** 01 Ltr – 04 Ltr – 05 Ltr – 06 Ltr – 08 Ltr – 10 Ltr – 20 Ltr – 105 Ltr – 205 Ltr



# Technical Data Sheet

## MASTER ACE MOTOR OIL

API: CF/SF  
SAE: 20W50

### DESCRIPTION:

**Master Ace Motor Oil** is multi grade engine oil of API SG/CD quality level. It is a fine blend of high quality base oil and selective additives. The additive blends which gives superior dispersant/detergents, anti-wear and anti-corrosion and excellent engine lubrication and protection. Special stay-in grade viscosity index improves and enhances its performance characteristics. Master Ace Motor Oil is designed to perform under elevated temperatures and the most severe driving conditions.

### APPLICATIONS:

Master Ace Motor Oil is recommended for naturally aspirated and turbo charged, petrol and diesel engines of passenger cars, mini bus, taxis, light commercial vehicles and contractor equipment involved in start/stop operations. Also suitable for CNG operated vehicles.

### BENEFITS:

- ✓ Very good start at low temperature
- ✓ Reduced wear on moving parts
- ✓ Reduced heat and frictional power losses
- ✓ Superior protection against rust and corrosion
- ✓ Excellent control of low temperature sludge
- ✓ Reduces maintenance cost
- ✓ Longer engine life & Fuel economy

### TYPICAL DATA

Product	Master Ace Motor Oil
SAE Rating	20W-50
API Performance	SG/CD

### PHYSICAL CHARACTERISTICS

TEST	TEST METHOD	TYPICAL VALUE
Kinematic Viscosity cSt @100 °C	ASTM D - 445	19.2
Viscosity Index	ASTM D - 2270	128
Flash Point COC, °C	ASTM D - 92	230
Sulphated Ash, % wt.	ASTM D - 874	0.7
TBN mg KOH/g	ASTM D - 2896	5
Pour Point °C	ASTM D - 97	-24

**Packing:** 01 Ltr – 03 Ltr – 04 Ltr – 08 Ltr



# Technical Data Sheet

## MASTER PLUS 150

API: SD/CD  
SAE: 40 & 50

### DESCRIPTION:

**Master Plus 150** is a high-quality crankcase oil for diesel and gasoline engines. Master Plus 150 is formulated with selected high-quality base oils and a balanced package of potent and effective additives including detergent, rust inhibitor and an anti-wear agent for meeting the requirements of the API Service Classifications SD for gasoline engines and CD for diesel engines.

### APPLICATIONS:

Master Plus 150 may be used in automotive diesel engines under moderate to severe conditions and four stroke petrol engines where API SD/CD oil is recommended. This oil is specially recommended for cabs, cars, buses, tractors and road trucks that requires this quality level. Meets and exceeds the requirements of API SD/CD.

### BENEFITS:

- ✓ Provides efficient and economical lubrication over wide range of operating conditions
- ✓ Gives excellent control over engine wear and corrosion
- ✓ Prolongs engine's life
- ✓ Excellent performance against ring sticking
- ✓ Reduces piston grooves and deposits

### TYPICAL DATA

Product	Master Plus 150
SAE Rating	40 & 50
API Performance	SD/CD

### PHYSICAL CHARACTERISTICS

TEST	TEST METHOD	TYPICAL VALUE	
		40	50
SAE Rating		40	50
Kinematic Viscosity cSt @100 °C	ASTM D - 445	15.3	18.5
Viscosity Index	ASTM D - 2270	110	110
Flash Point COC, °C	ASTM D - 92	228	230
Sulphated Ash, % wt.	ASTM D - 874	0.65	0.65
Pour Point °C	ASTM D - 97	-9	-9

**Packing:** 01 Ltr – 04 Ltr – 05 Ltr – 06 Ltr – 08 Ltr – 10 Ltr – 20 Ltr – 105 Ltr – 205 Ltr



# Technical Data Sheet

## MASTER PLUS 100

API: SD/CC  
SAE: 40 & 50

### DESCRIPTION:

**Master Plus 100** is a premium-grade crankcase oil for use in diesel and gasoline engines under moderate to severe conditions. Master Plus 100 is blended from selected highly refined base oil stocks and selected additives to meet performance level of API service SD/CC.

### APPLICATIONS:

Master Plus 100 is recommended for use in diesel and gasoline engines. Suitable for use in most commercial vehicles and light trucks.

### BENEFITS:

- ✓ Master Plus 100 delivers excellent performance, provides more protection against engine deposits, wear, rust & corrosion
- ✓ Prolongs engine's life
- ✓ Suitable for mixed fleet operation
- ✓ High residence to oxidation
- ✓ Keeps engine clean
- ✓ Maintains TBN retention

### TYPICAL DATA

Product	Master Plus 100
SAE Rating	40 & 50
API Performance	SD/CC

### PHYSICAL CHARACTERISTICS

TEST	TEST METHOD	TYPICAL VALUE	
		40	50
Kinematic Viscosity cSt @100 °C	ASTM D - 445	15.6	18.5
Viscosity Index	ASTM D - 2270	95	95
Flash point COC, °C	ASTM D - 92	230	235
Sulphated Ash, % wt.	ASTM D - 874	0.5	0.5
Pour Point °C	ASTM D - 97	-6	-6

**Packing:** 04 Ltr – 10 Ltr – 20 Ltr – 105 Ltr – 205 Ltr



# Technical Data Sheet

## MASTER CNG OIL

API: SG/CD

SAE: 20W50

### DESCRIPTION:

**Master CNG Oil** is manufactured from high quality **Group-II** base oils and selected additives. It is a high performance lubricant designed to provide excellent oxidation and thermal stability & is colour coded in Red.

### APPLICATIONS:

Master CNG Oil meets the API service classification SG/CD. A superior quality product for use in naturally aspirated or turbo charged CNG operated gasoline and diesel engines.

### BENEFITS:

- ✓ Superior detergency and anti-wear properties
- ✓ Excellent oxidation and thermal stability
- ✓ Controls sludge build-up and deposits
- ✓ Lowers maintenance cost and prolongs engine's life
- ✓ Excellent performance for a long period under severe operating conditions
- ✓ Its selected additives package provides enhanced engine performance at high burning temperature of CNG fuel

### TYPICAL DATA

Product	Master CNG Oil
SAE Rating	20W-50
API Performance	SG/CD

### PHYSICAL CHARACTERISTICS

TEST	TEST METHOD	TYPICAL VALUE
Kinematic Viscosity cSt @100 °c	ASTM D- 445	19.2
Viscosity index	ASTM D- 2270	128
Flash Point COC, °C	ASTM D- 92	230
Sulphated Ash % wt.	ASTM D- 874	0.7
TBN mg KOH/g	ASTM D-2896	5
Pour Point °C	ASTM D-97	-24

**Packing:** 01 Ltr – 03 Ltr – 04 Ltr – 08 Ltr – 205 Ltr



# Technical Data Sheet

## MASTER XTRA 4T-MCO

API: SF/CC  
SAE: 20W40

### DESCRIPTION:

**Master Xtra 4T-MCO** is a high quality, multi-grade gasoline engine oil blended with **Group-II** base oils and selected additives and is specifically designed for use in 4-Stroke motorcycle engines.

### APPLICATIONS:

**Master Xtra 4T-MCO** is specially developed for 4-Stroke motorcycle engines.

### BENEFITS:

- ✓ Gives protection from wear and corrosion
- ✓ Longer engine life
- ✓ Guards the engine
- ✓ Keeps the engine clean
- ✓ Excellent performance in all operating conditions
- ✓ Excellent oxidation stability
- ✓ Provides extra protection against sludge, varnish, rust and oxidation
- ✓ Also recommended for motorcycle transmission
- ✓ Effective long run lubrication for low and high temperature operations

### TYPICAL DATA

Product	Master Xtra 4T-MCO
SAE Rating	20W-40
API Performance	SF/CC

### PHYSICAL CHARACTERISTICS

TEST	TEST METHOD	TYPICAL VALUE
Kinematic Viscosity cSt @100 °C	ASTM D - 445	18.5
Viscosity Index	ASTM D - 2270	125
Flash Point COC, °C	ASTM D - 92	230
Sulphated Ash, wt%	ASTM D - 874	0.65
TBN mg KOH/g	ASTM D - 2896	5
Pour Point °C	ASTM D - 97	-21

**Packing:** 0.7 Ltr – 01 Ltr





# Technical Data Sheet

## MASTER SUPER DIESEL ENGINE OIL

API: SD/CC  
SAE: 40 & 50

### DESCRIPTION:

**Master Super Diesel Engine Oil** is a premium-grade crankcase oil for use in diesel engines under moderate to severe conditions. Master Super Diesel Engine Oil is blended from selected highly refined base oils stocks and additives to meet performance level of API service SD/CC and is colour coded in Red.

### APPLICATIONS:

Master Super Diesel Engine Oil is recommended for use in diesel engines. Suitable for use in most commercial vehicles and light trucks.

### BENEFITS:

- ✓ Master Super Diesel Engine Oil provides good diesel engine performance, resists oxidation, protects against engine deposits, wear, rust and corrosion
- ✓ Prolongs engine's life.
- ✓ Suitable for mixed fleet operation
- ✓ High residence to oxidation
- ✓ Keeps engine clean
- ✓ Maintains TBN retention

### TYPICAL DATA

Product	Master Super Diesel Engine Oil
SAE Rating	40 & 50
API Performance	SD/CC

### PHYSICAL CHARACTERISTICS

TEST	TEST METHOD	TYPICAL VALUE	
		40	50
Kinematic Viscosity cSt @100 °C	ASTM D - 445	15.4	18.5
Viscosity Index	ASTM D - 2270	95	95
Flash Point COC, °C	ASTM D - 92	230	230
Sulphated Ash, % wt.	ASTM D - 874	0.5	0.5
Pour Point °C	ASTM D - 97	-6	-6

**Packing:** 04 Ltr – 08 Ltr – 20 Ltr – 105 Ltr – 205 Ltr



# Technical Data Sheet

## MASTER EP GEAR OIL

API: GL-4  
SAE: 90 & 140

### DESCRIPTION:

**Master EP Gear Oil** is a multi-purpose extreme pressure Gear Oil blended with high quality base oils and selected Sulphur & Phosphorus additives to meet API service classification of GL-4.

### APPLICATIONS:

Master EP Gear Oil is recommended for use in automotive gears, hypoid gears, tractors and agricultural machinery gears.

### BENEFITS:

- ✓ Excellent gear performance
- ✓ Superior protection against wear
- ✓ Excellent protection against rust and corrosion
- ✓ Compatible with other gear lubricants
- ✓ Outstanding rust inhibitor
- ✓ Good load carrying capability
- ✓ Excellent low temperature performance

### TYPICAL DATA

Product	Master EP Gear Oil
SAE Rating	90 & 140
API Performance	GL-4

### PHYSICAL CHARACTERISTICS

TEST	TEST METHOD	TYPICAL VALUE	
<b>SAE Rating</b>		<b>90</b>	<b>140</b>
Kinematic Viscosity (cSt) @100 °C	ASTM D - 445	17.6	32
Viscosity Index	ASTM D - 2270	80	80
Flash Point COC, °C	ASTM D - 92	220	240

**Packing:** 01 Ltr – 04 Ltr – 205 Ltr



# Technical Data Sheet

## MASTER TURBO PLUS

API: SN  
SAE: 10W-40

### Description

Premium High performance Multigrade Engine Oil for Gasoline Engines designed to meet API SN performance level.

### Application

Master Turbo plus SN 10W-40 is blending using high –grade base oils synthetic technology formulation and special PCMO additives that significantly improves engine protection against wear, deposits, oil drain intervals and overall driving experience.

Master Turbo plus SN 10W -40 can be used in all driving conditions and in all season.

### Performance Levels

Master Turbo plus SN 10W-40 meets the international specification of API SN and it also meets the specification of major OEM s in the world.

### Benefits

- High additives detergency reduces sludge formation which keeps the engines cleaner
- Reduces engine wear and tear which results in lower engine deposits and longer engine life.
- Extended oil drain intervals compared to mineral engine deposits and longer engine life.
- Exceptional thermal and oxidation stability.
- Minimizes oil leakage by minimizing engine seal hardening
- Improves full efficiency.

TYPICAL CHARACTERISTICS			
Product Name	TEST	Method	Results
Master Turbo Plus	Viscosity at 40	ASTM	103.06
API Level: SN	Viscosity at 100	ASTM	14.67
SAE Level: 10W-40	Viscosity at index	ASTM	147
	Pour Point	ASTM	-33
	Flash Point	ASTM	220

Packing:	01 Ltr – 03 Ltr – 4 Ltr
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# Technical Data Sheet

## MASTER TURBO

API: SM  
SAE: 20W-50

### Description

Premium High performance Multigrade Engine Oil for Gasoline Engines designed to meet API SM performance levels.

### Application

Master Turbo SM 20W-50 is formulated using high –grade base oils and additives to provide high grade engine protection and the additives give improve detergency, dispersency, Anti-Oxidarit and Anti-wear characteristics.

### Performance Levels

Master Turbo plus SM 20W-50 meets the international specification of API SM and it also meets the specification of major OEM s in the world.

### Benefits

- High additives detergency reduces sludge formation which keeps the engines cleaner
- Reduces engine wear and tear which results in lower engine deposits and longer engine life.
- Exceptional oxidation stability.
- Minimizes oil leakage by minimizing engine seal hardening
- Improves full efficiency.

### TYPICAL CHARACTERISTICS

Product Name	TEST	Method	Results
Master Turbo	Viscosity at 40	ASTM	176.85
API Level: SM	Viscosity at 100	ASTM	19.76
SAE Level: 20W-50	Viscosity at index	ASTM	129
	Pour Point	ASTM	-21
	Flash Point	ASTM	232

Packing: 01 Ltr – 03 Ltr – 4 Ltr