



Product Catalogue



RICHAEEL LUBRICANTS commitment in providing environmental friendly and technologically advanced products have resulted in heavy investments in modern manufacturing plant backed by state of the art in-house R&D centre ensuring consistent supply of premium products matching the most stringent international standards as well as Original Equipment Manufacturer's requirements.

Latest technologies, extreme operating conditions, constant emerging environmental regulations, and modern engines are few of many parameters that are kept in mind while developing products. Stringent adherence to quality process in our plants ensures high standards of lubricants and greases delivered to you each time that exceeds JASO, API and NLGI performance levels worldwide.

Product Information contained in this catalogue provides general description of YAMAMOTO, with details of performance standards and typical properties.

The company is highly certified for ISO 9001-2008, ISO 14001-2004, and OHSAS 18001:2007, and our products are approved by the american petroleum institute (API), and society of automotive engineers (SAE) .





GASOLINE ENGINE OIL



SAE OW-16 SP

MEETS OR EXCEEDS: API SP, ILSAC GF-6B

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE OW-16			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.0
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	42.0
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	8.25
5	Viscosity Index	D 2270	176
6	Flash Point ,COC,°C	D 92	216
7	Pour Point, °C	D 97	-42
8	TBN mg/KOH/g	D 2896	7.5

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE OW-20 SP

MEETS OR EXCEEDS: API SP, ILSAC GF-6A, FORD WSS-M2C962-A/WSS-M2C947-B1, DEXOS1™ GEN3, CHRYSLER MS6395

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE OW-20			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.0
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	46.5
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	8.8
5	Viscosity Index	D 2270	172
6	Flash Point ,COC,°C	D 92	216
7	Pour Point, °C	D 97	-42
8	TBN mg/KOH/g	D 2896	7.5

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE OW-30 SP

MEETS OR EXCEEDS: API SP, ILSAC GF-6A, FORD WSS-M2C962-A/WSS-M2C947-B1, DEXOS1™ Gen3, CHRYSLER MS6395

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE OW-30			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.0
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	48.3
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	9.8
5	Viscosity Index	D 2270	194
6	Flash Point ,COC,°C	D 92	224
7	Pour Point, °C	D 97	-48
8	TBN mg/KOH/g	D 2896	7.5

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE OW-40 SP

MEETS OR EXCEEDS: API SP, ACEAA3/B4, MB 229.3, MB 229.5, PORSCHE A40, VW 502.00/505.00.

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE OW-40			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.0
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	74
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	13.7
5	Viscosity Index	D 2270	190
6	Flash Point ,COC,°C	D 92	226
7	Pour Point, °C	D 97	-45
8	TBN mg/KOH/g	D 2896	7.5

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 5W-20 SP

MEETS OR EXCEEDS: API SP, ILSAC GF-6A, FORD WSS-M2C960-A/WSS-M2C945-B1, DEXOS1™ GEN3, CHRYSLER MS6395

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 5W-20			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.0
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	47.9
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	8.95
5	Viscosity Index	D 2270	165
6	Flash Point ,COC,°C	D 92	216
7	Pour Point, °C	D 97	-42
8	TBN mg/KOH/g	D 2896	7.6

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 5W-30 SP

MEETS OR EXCEEDS: API SP, ILSAC GF-6A, FORD WSS-M2C961-A/WSS-M2C946-B1, DEXOS1™ GEN3, CHRYSLER MS6395

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 5W-30			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.0
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	75.9
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	12.1
5	Viscosity Index	D 2270	156
6	Flash Point ,COC,°C	D 92	220
7	Pour Point, °C	D 97	-42
8	TBN mg/KOH/g	D 2896	8.1

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 5W-40 SP

MEETS OR EXCEEDS: API SP, ACEA A3/B4, MB 229.5, PORSCHE A40, VW 502.00/505.00, RENAULT RN 0700/0710

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 5W-40			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.0
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	86.8
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	14.1
5	Viscosity Index	D 2270	168
6	Flash Point ,COC,°C	D 92	220
7	Pour Point, °C	D 97	-42
8	TBN mg/KOH/g	D 2896	7.6

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 0W-20 SN

MEETS OR EXCEEDS: API SN, ILSAC GF-5, FORD WSS-M2C-947A, DEXOS1™, GMW16076/16182

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 0W-20			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.0
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	43.0
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	8.3
5	Viscosity Index	D 2270	172
6	Flash Point ,COC,°C	D 92	216
7	Pour Point, °C	D 97	-45
8	TBN mg/KOH/g	D 2896	7.6

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 0W-30 SN

MEETS OR EXCEEDS: API SN, ILSAC GF-5, FORD WSS-M2C-947A, DEXOS1™, GMW16076/16182

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 0W-30			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.0
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	65.5
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	11.7
5	Viscosity Index	D 2270	176
6	Flash Point ,COC,°C	D 92	220
7	Pour Point, °C	D 97	-42
8	TBN mg/KOH/g	D 2896	7.5

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 0W-40 SN

MEETS OR EXCEEDS: API SN, ILSAC GF-5, FORD WSS-M2C-947A, DEXOS1™, GMW16076/16182

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 0W-40			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L1.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	86.5
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	14.5
5	Viscosity Index	D 2270	175
6	Flash Point ,COC,°C	D 92	228
7	Pour Point, °C	D 97	-42
8	TBN mg/KOH/g	D 2896	7.6

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 5W-20 SN

MEETS OR EXCEEDS: API SN, ILSAC GF-5, FORD WSS-M2C-945A, DEXOS1™, GMW16096/161820

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 5W-20			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.0
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	46.3
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	8.8
5	Viscosity Index	D 2270	165
6	Flash Point ,COC,°C	D 92	216
7	Pour Point, °C	D 97	-42
8	TBN mg/KOH/g	D 2896	7.5

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 5W-30 SN

MEETS OR EXCEEDS: API SN, ILSAC GF-5, FORD WSS-M2C-946A, DEXOS1™, GMW 16181, GMW15827

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 5W-30			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.0
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	69
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	11.8
5	Viscosity Index	D 2270	165
6	Flash Point ,COC,°C	D 92	220
7	Pour Point, °C	D 97	-39
8	TBN mg/KOH/g	D 2896	7.0

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 5W-40 SN

MEETS OR EXCEEDS: API SN, ILSAC GF-5, ACEA A3/B4-16, MB229.3, MB229.5, PORSCHE A40, VW 502.00/505.00, RENAULT RN 0710/0700, GM-LL-B-025, BMW LL-01

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 5W-40			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.0
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	84
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	13.5
5	Viscosity Index	D 2270	168
6	Flash Point ,COC,°C	D 92	230
7	Pour Point, °C	D 97	-42
8	TBN mg/KOH/g	D 2896	7.3

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 10W-30 SN

MEETS OR EXCEEDS: API SN, ILSAC GF-5, CHRYSLER MS-6395

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 10W-30			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	76
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	11.9
5	Viscosity Index	D 2270	152
6	Flash Point ,COC,°C	D 92	228
7	Pour Point, °C	D 97	-36
8	TBN mg/KOH/g	D 2896	7.2

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 10W-40 SN

MEETS OR EXCEEDS: API SN, ACEA A3/B4-16, MB229.3, RENAULT RN 0710/0700, PSA B71 2300, ACEA A3/B3-16, MB 229.1 MB 229.1

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 10W-40			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.0
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	101
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	15.2
5	Viscosity Index	D 2270	151
6	Flash Point ,COC,°C	D 92	220
7	Pour Point, °C	D 97	-36
8	TBN mg/KOH/g	D 2896	7.6

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 10W-50 SN

MEETS OR EXCEEDS: API SN, ACEA A3/B4-16, MB229.3, RENAULT RN 0710/0700, PSA B71 2300, ACEA A3/B3-16, MB 229.1

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 10W-50			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.0
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	127
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	18.6
5	Viscosity Index	D 2270	165
6	Flash Point ,COC,°C	D 92	224
7	Pour Point, °C	D 97	-36
8	TBN mg/KOH/g	D 2896	7.6

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



DIESEL ENGINE OIL



SAE 5W-20 CK-4/SN

MEETS OR EXCEEDS: API CK-4/SN, CAT ECF-3, CUMMINS CES 20086, MAN M3775, MB 228.31, VOLVO VDS-4.5, ACEA E7-16, ACEA E9-16

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 5W-20			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.0
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	48.75
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	8.94
5	Viscosity Index	D 2270	166
6	Flash Point, °C	D 92	218
7	Pour Point, °C	D 97	-36
8	TBN mg/KOH/g	D 2896	10.2

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 5W-30 CK-4/SN

MEETS OR EXCEEDS: API CK-4/SN, CAT ECF-3, CUMMINS CES 20086, MAN M3775, MB 228.31, VOLVO VDS-4.5, ACEA E7-16, ACEA E9-16

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 5W-30			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	69
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	11.8
5	Viscosity Index	D 2270	168
6	Flash Point, °C	D 92	222
7	Pour Point, °C	D 97	-42
8	TBN mg/KOH/g	D 2896	10.2

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 5W-40 CK-4/SN

MEETS OR EXCEEDS: API CK-4, CAT ECF-3, CUMMINS CES 20086, MAN M3775, MB 228.31, VOLVO VDS-4.5, ACEA E7-16, ACEA E9-16

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 5W-40			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	90
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	14.6
5	Viscosity Index	D 2270	170
6	Flash Point, °C	D 92	220
7	Pour Point, °C	D 97	-48
8	TBN mg/KOH/g	D 2896	10.5

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 10W-30 CK-4

MEETS OR EXCEEDS: API CK-4, CAT ECF-3, CUMMINS CES 20086, MAN M3775, MB 228.31, VOLVO VDS-4.5, ACEA E7-16, ACEA E9-16

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 10W-30			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	75
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	11.8
5	Viscosity Index	D 2270	152
6	Flash Point, °C	D 92	224
7	Pour Point, °C	D 97	-39
8	TBN mg/KOH/g	D 2896	10.4

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 10W-40 CK-4

MEETS OR EXCEEDS: API CK-4, CAT ECF-3, CUMMINS CES 20086, MAN M3775, MB 228.31, VOLVO VDS-4.5, ACEA E7-16, ACEA E9-16

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 10W-40			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	101
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	15.2
5	Viscosity Index	D 2270	158
6	Flash Point ,COC,°C	D 92	222
7	Pour Point, °C	D 97	-33
8	TBN mg/KOH/g	D 2896	10.7

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 0W-30 API CJ-4/SN

MEETS OR EXCEEDS: API CJ4/CJ-4+, SN/CF, ACEA E7-08/E9-08, MB 228.31, CUMMINS CES 20081, MTU TYPE 3.1/2.1, DEUTZ DQC 111-10 LA, GLOBAL DHD-1, JASO DH-2, MACK EOPREMIUM PLUS, DETROIT DIESEL DDC 93K218

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 0W-30			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.0
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	66.75
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	11.07
5	Viscosity Index	D 2270	158
6	Flash Point ,COC,°C	D 92	216
7	Pour Point, °C	D 97	-33
8	TBN mg/KOH/g	D 2896	10.5

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 5W-30 API CJ-4/SN

MEETS OR EXCEEDS: API CJ4/CJ-4+, SN/CF, ACEA E7-08/E9-08, MB 228.31, CUMMINS CES 20081, SCANIA LDF-4, DEUTZ DQC-IV-10 LA, VOLVO VDS-3, MAN M3477/M3575, MACK EOPREMIUM PLUS, DETROIT DIESEL DDC 9

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 5W-30			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.0
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	67.86
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	11.35
5	Viscosity Index	D 2270	161
6	Flash Point ,COC,°C	D 92	218
7	Pour Point, °C	D 97	-33
8	TBN mg/KOH/g	D 2896	10.5

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 5W-40 API CJ-4/SN

MEETS OR EXCEEDS: API CJ4/CJ-4+, SN/CF, ACEA E7-08/E9-08, MB 228.31, CUMMINS CES 20081, MTU TYPE-I & II, DEUTZ DQC-IV-10 LA, VOLVO VDS-4, RENAULT TRUCKS RLD-3, DDC POWER GUARD 93K218

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 5W-40			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.0
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	100.21
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	15.75
5	Viscosity Index	D 2270	168
6	Flash Point ,COC,°C	D 92	220
7	Pour Point, °C	D 97	-33
8	TBN mg/KOH/g	D 2896	10.6

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 10W-30 API CJ-4/SN

MEETS OR EXCEEDS: API CJ4/CJ-4+, SN/CF, ACEA E7-08/E9-08, MB 228.31, CUMMINS CES 20081, RENAULT TRUCKS RLD-3, VOLVO VDS-4, MAN M3575, MTU TYPE 3.1/2.1, CATERPILLAR ECF-2 & ECF-3, DEUTZ DQC-III-10 LA

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 10W-30			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.0
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	67.90
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	11.45
5	Viscosity Index	D 2270	163
6	Flash Point ,COC,°C	D 92	218
7	Pour Point, °C	D 97	-33
8	TBN mg/KOH/g	D 2896	10.6

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 10W-40 API CJ-4/SN

MEETS OR EXCEEDS: API CJ4/CJ-4+, SN/CF, ACEA E7-08/E9-08, MB 228.31, CUMMINS CES 20081, RENAULT TRUCKS RLD-3, VOLVO VDS-4, MTU TYPE 3.1/2.1, JASO DH-2, DEUTZ DQCIII-10 LA, MACK EO-PREMIUM PLUS, GLOBALDHD

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 10W-40			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.0
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	104.2
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	15.65
5	Viscosity Index	D 2270	160
6	Flash Point ,COC,°C	D 92	222
7	Pour Point, °C	D 97	-33
8	TBN mg/KOH/g	D 2896	10.5

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 15W-40 API CJ-4/SN

MEETS OR EXCEEDS: API CJ4/CJ-4+, SN/CF, ACEA E7-08/E9-08, MB 228.31, CUMMINS CES 20081, RENAULT TRUCKS RLD-3, VOLVO VDS-4, MTU TYPE 3.1/2.1, JASO DH-2, DEUTZ DQCIII-10 LA, MACK EO-PREMIUM PLUS, GLOBALDHD-1

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 15W-40			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.0
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	104.2
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	15.65
5	Viscosity Index	D 2270	160
6	Flash Point ,COC,°C	D 92	226
7	Pour Point, °C	D 97	-33
8	TBN mg/KOH/g	D 2896	10.5

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 20W-50 API CJ-4/SN

MEETS OR EXCEEDS: API CJ4/CJ-4+, SN/CF, ACEA E9-08, MB 228.31, CUMMINS CES 20081, RENAULT TRUCKS RLD-3, VOLVO VDS-4, MTU TYPE 3.1/2.1, CATERPILLER ECF-3, MAN M3477/M3575, MACK EO-O PREMIUM PLUS, FORD WSS-M2C171-F1

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 20W-50			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.0
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	169.52
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	20.78
5	Viscosity Index	D 2270	144
6	Flash Point ,COC,°C	D 92	232
7	Pour Point, °C	D 97	-30
8	TBN mg/KOH/g	D 2896	10.6

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 5W-20 API CI-4/SL

MEETS OR EXCEEDS: API CI-4/SL, ACEA E7-16, MB228.3, MAN 3275, VOLVO VDS-3, RENAULT RLD-2, CUMMINS CES 20077, CATERPILLAR ECF-2

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 5W-20			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.0
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	47.52
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	8.75
5	Viscosity Index	D 2270	165
6	Flash Point ,COC,°C	D 92	216
7	Pour Point, °C	D 97	-42
8	TBN mg/KOH/g	D 2896	10.2

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 5W-30 API CI-4/SL

MEETS OR EXCEEDS: API CI-4, ACEA E7-16, MB228.1, MAN 3275, VOLVO VDS-3, RENAULT RLD-2, CUMMINS CES 20077, CATERPILLAR ECF-2

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 5W-30			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.0
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	67.25
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	11.52
5	Viscosity Index	D 2270	164
6	Flash Point ,COC,°C	D 92	216
7	Pour Point, °C	D 97	-42
8	TBN mg/KOH/g	D 2896	10.2

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 5W-40 API CI-4/SL

MEETS OR EXCEEDS: API CI-4, ACEA E7-16, MB228.1, MAN 3275, VOLVO VDS-3, RENAULT RLD-2, CUMMINS CES 20077, CATERPILLAR ECF-2

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 5W-40			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.0
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	90.53
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	14.25
5	Viscosity Index	D 2270	163
6	Flash Point ,COC,°C	D 92	218
7	Pour Point, °C	D 97	-42
8	TBN mg/KOH/g	D 2896	10.3

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 15W-40 CI-4

MEETS OR EXCEEDS: API CI-4, ACEA E7-16, MAN 3275, VOLVO VDS-3, RENAULT RLD-2, CUMMINS CES 20077, MB 228.3

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 15W-40			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	111.6
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	15.2
5	Viscosity Index	D 2270	142
6	Flash Point ,COC,°C	D 92	236
7	Pour Point, °C	D 97	-30
8	TBN mg/KOH/g	D 2896	10.7

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 10W-30 API CI-4/SL

MEETS OR EXCEEDS: API CI-4, ACEA E7-16, MB228.3, MAN 3275, VOLVO VDS-3, RENAULT RLD-2, CUMMINS CES 20077, CATERPILLAR ECF-2

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 10W-40			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	72
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	10.8
5	Viscosity Index	D 2270	140
6	Flash Point ,COC,°C	D 92	224
7	Pour Point, °C	D 97	-36
8	TBN mg/KOH/g	D 2896	10.2

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 10W-40 API CI-4/SL

MEETS OR EXCEEDS: API CI-4, ACEA E7-16, MB228.1, MAN 3275, VOLVO VDS-3, RENAULT RLD-2, CUMMINS CES 20077, CATERPILLAR ECF-2

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 10W-40			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	98.5
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	14.27
5	Viscosity Index	D 2270	148
6	Flash Point ,COC,°C	D 92	226
7	Pour Point, °C	D 97	-33
8	TBN mg/KOH/g	D 2896	10.6

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 15W-30 CI-4/SL

MEETS OR EXCEEDS: API CI-4, ACEA E7-16, MB228.1, MAN 3275, VOLVO VDS-3, RENAULT RLD-2, CUMMINS CES 20077, CATERPILLAR ECF-2

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 15W-30			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	118
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	15.7
5	Viscosity Index	D 2270	141
6	Flash Point ,COC,°C	D 92	226
7	Pour Point, °C	D 97	-33
8	TBN mg/KOH/g	D 2896	10.4

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 15W-40 CI-4/SL

MEETS OR EXCEEDS: API CI-4, ACEA E7-16, MAN 3275, VOLVO VDS-3, RENAULT RLD-2, CUMMINS CES 20077, MB 228.3

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 15W-40			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	118
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	15.7
5	Viscosity Index	D 2270	141
6	Flash Point ,COC,°C	D 92	228
7	Pour Point, °C	D 97	-33
8	TBN mg/KOH/g	D 2896	10.4

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 20W-50 CI-4

MEETS OR EXCEEDS: API CI-4, ACEA E7-16, MAN 3275, CATERPILLAR ECF -1A, MB 228.3

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 20W- 50			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	165
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	18.5
5	Viscosity Index	D 2270	126
6	Flash Point ,COC,°C	D 92	236
7	Pour Point, °C	D 97	-27
8	TBN mg/KOH/g	D 2896	11.2

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE HD-40 CI-4

MEETS OR EXCEEDS: API CI-4, ACEA E7-16, MAN 3275, CATERPILLAR ECF -1A, MB 228.3

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE HD-40			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	142.5
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	16.2
5	Viscosity Index	D 2270	120
6	Flash Point ,COC,°C	D 92	234
7	Pour Point, °C	D 97	-24
8	TBN mg/KOH/g	D 2896	10.23

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE HD-50 CI-4

MEETS OR EXCEEDS: API CI4, ACEA E7-16, MAN M3275, CATERPILLAR ECF - 1A, MB 228.3

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE HD- 50			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	202.3
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	21.02
5	Viscosity Index	D 2270	123
6	Flash Point ,COC,°C	D 92	236
7	Pour Point, °C	D 97	-22
8	TBN mg/KOH/g	D 2896	10.3

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE HD-60 CI-4

MEETS OR EXCEEDS: API CI4, ACEA E7-16, MAN M3275, CATERPILLAR ECF - 1A, MB 228.3

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE HD- 60			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	2.0
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	242.43
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	23.45
5	Viscosity Index	D 2270	120
6	Flash Point ,COC,°C	D 92	240
7	Pour Point, °C	D 97	-21
8	TBN mg/KOH/g	D 2896	10.1

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



**MOTORCYCLE
ENGINE OIL**



2T TC

MEETS OR EXCEEDS: API TC, JASO FD, ISO E-GC, E-GD

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
2T TC			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	62.1
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	9.15
5	Viscosity Index	D 2270	126
6	Flash Point ,COC,°C	D 92	78
7	Pour Point, °C	D 97	-9
8	TBN mg/KOH/g	D 2896	8.0

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 10W-40 SL 4T

MEETS OR EXCEEDS: API SL, JASO MA2

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
10W-40 4T			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	95
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	14.30
5	Viscosity Index	D 2270	155
6	Flash Point ,COC,°C	D 92	226
7	Pour Point, °C	D 97	-36
8	TBN mg/KOH/g	D 2896	8.4

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 15W-40 SL 4T

MEETS OR EXCEEDS: API SL, JASO MA2

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
15W-40 4T			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	107
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	14
5	Viscosity Index	D 2270	140
6	Flash Point ,COC,°C	D 92	230
7	Pour Point, °C	D 97	-36
8	TBN mg/KOH/g	D 2896	9.8

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 20W-40 SL 4T

MEETS OR EXCEEDS: API SL, JASO MA2

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 20W- 40			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	113.85
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	15.22
5	Viscosity Index	D 2270	140
6	Flash Point ,COC,°C	D 92	228
7	Pour Point, °C	D 97	-30
8	TBN mg/KOH/g	D 2896	7.5

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 10W-30 SN 4T

MEETS OR EXCEEDS: API SN, JASO MA2

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 10W-30 4T			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	66.1
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	10.9
5	Viscosity Index	D 2270	151
6	Flash Point ,COC,°C	D 92	239
7	Pour Point, °C	D 97	-36
8	TBN mg/KOH/g	D 2896	7.4

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 10W-40 SN 4T

MEETS OR EXCEEDS: API SN, JASO MA2

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 10W- 40 4T			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	94
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	14.5
5	Viscosity Index	D 2270	160
6	Flash Point ,COC,°C	D 92	236
7	Pour Point, °C	D 97	-39
8	TBN mg/KOH/g	D 2896	7.5

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 15W-40 SN 4T

MEETS OR EXCEEDS: API SN, JASO MA2

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 20W- 50			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	105
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	14.4
5	Viscosity Index	D 2270	135
6	Flash Point ,COC,°C	D 92	211
7	Pour Point, °C	D 97	-36
8	TBN mg/KOH/g	D 2896	7.5

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 20W-50 SN 4T

MEETS OR EXCEEDS: API SN, JASO MA2

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 20W- 50			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	165
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	18.5
5	Viscosity Index	D 2270	126
6	Flash Point ,COC,°C	D 92	236
7	Pour Point, °C	D 97	-27
8	TBN mg/KOH/g	D 2896	7.6

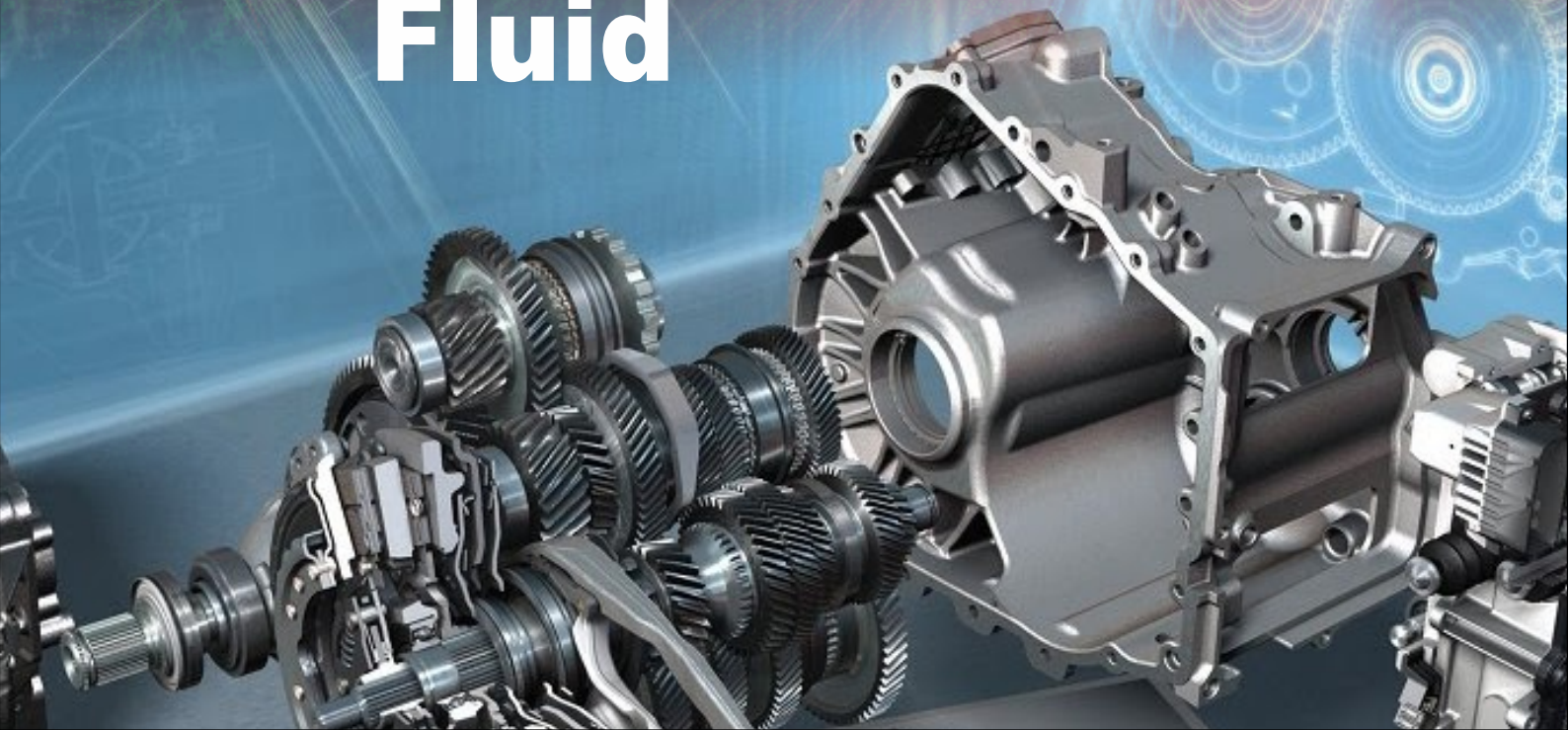
AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



ATF

**Automatic
Transmission
Fluid**





ATF TYPE A

MEETS OR EXCEEDS: MAN 339Z1.V1, MB236.1, ZF TE-ML03D, 04D, 14A, ZF TE-ML 17C,03D

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
TYPE A			
1	Appearance	Visual	Clear & Bright
2	Color	Visual	Red
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	39.6
4	Kinematic, Viscosity mm ² /s @ 100°C	D 2270	7.2
5	Viscosity Index	D 92	147
6	Flash Point ,COC,°C	D 97	210
7	Pour Point, °C	D 445	-24

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



DEXRON II

MEETS OR EXCEEDS: ALLISON TES-389, CAT TO-2, VOLVO 97340, ZF TE-ML 05L, 09, 21L, ALLISON C-4, VOITH H55.6335.XX, GM 3H

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
DEXRON II			
1	Appearance	Visual	Clear & Bright
2	Color	Visual	Red
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	36.5
4	Kinematic, Viscosity mm ² /s @ 100°C	D 2270	7.1
5	Viscosity Index	D 92	161
6	Flash Point ,COC,°C	D 97	212
7	Pour Point, °C	D 445	-33

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



DEXRON III

MEETS OR EXCEEDS: ALLISON TES-389, CAT TO-2, VOLVO 97340, ZF TE-ML 05L, 09, 21L, ALLISON C-4, VOITH H55.6335.XX, GM 3H

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
DEXRON II			
1	Appearance	Visual	Clear & Bright
2	Color	Visual	Red
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	35
4	Kinematic, Viscosity mm ² /s @ 100°C	D 2270	7.1
5	Viscosity Index	D 92	171
6	Flash Point ,COC,°C	D 97	212
7	Pour Point, °C	D 445	-36

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



DEXRON IV

MEETS OR EXCEEDS: ALLISON TES-389, CAT TO-2, VOLVO 97340, ZF TE-ML 05L, 09, 21L, ALLISON C-4, VOITH H55.6335.XX, GM 3H

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
DEXRON IV			
1	Appearance	Visual	Clear & Bright
2	Color	Visual	Red
3	Kinematic, Viscosity m ² /s @ 40°C	D 445	34.7
4	Kinematic, Viscosity m ² /s @ 100°C	D 2270	7.1
5	Viscosity Index	D 92	173
6	Flash Point ,COC,°C	D 97	212
7	Pour Point, °C	D 445	-36

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



DEXRON VI

MEETS OR EXCEEDS: CHRYSLER M1375.4, AUDI/VW G-052-162-A1/A2, BMW ETL-7045, 7045E, JAGUAR ATF 3403 M115, VOLVO 97340, GM DEXRON VI

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
DEXRON VI			
1	Appearance	Visual	Clear & Bright
2	Color	Visual	Red
3	Kinematic, Viscosity m ² /s @ 40°C	D 445	35.2
4	Kinematic, Viscosity m ² /s @ 100°C	D 2270	7.21
5	Viscosity Index	D 92	175
6	Flash Point ,COC,°C	D 97	218
7	Pour Point, °C	D 445	-42

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



CVT NS2/NS3

MEETS OR EXCEEDS: CVT, NS2, NS2, HYUNDAI SP CVT 1, KIA SP CVT-1, TOYOTA TC, NISSAN CVS NS-2

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
CVT NS2/NS3			
1	Appearance	Visual	Clear & Bright
2	Color	Visual	Red
3	Kinematic, Viscosity m ² /s @ 40°C	D 445	28.76
4	Kinematic, Viscosity m ² /s @ 100°C	D 2270	6.5
5	Viscosity Index	D 92	191
6	Flash Point ,COC,°C	D 97	218
7	Pour Point, °C	D 445	-45

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



GEAR OILS





SAE 75W-80 GL-4

MEETS OR EXCEEDS: API GL-4, DIN 51517 Part 3 (CLP), ISO 12925-1 CKC, US Steel 224, ISO6743 - 6 CKC, SAE J2360, AGMA252.04, MT-1

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 75W-80			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L1.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	56.1
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	9.7
5	Viscosity Index	D 2270	159
6	Flash Point ,COC,°C	D 92	210
7	Pour Point, °C	D 97	-36

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 75W-90 GL-4

MEETS OR EXCEEDS: API GL-4, DIN 51517 Part 3 (CLP), ISO 12925-1 CKC, US Steel 224, ISO6743 - 6 CKC, SAE J2360, AGMA252.04, MT-1

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 75W-90			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L1.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	99
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	14.8
5	Viscosity Index	D 2270	156
6	Flash Point ,COC,°C	D 92	220
7	Pour Point, °C	D 97	-30

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 80W-90 GL-4

MEETS OR EXCEEDS: API GL-4, DIN 51517 Part 3 (CLP), ISO 12925-1 CKC, US Steel 224, ISO6743 - 6 CKC, SAE J2360, AGMA252.04, MT-1

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 80W-90			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L1.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	152
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	17.5
5	Viscosity Index	D 2270	126
6	Flash Point ,COC,°C	D 92	234
7	Pour Point, °C	D 97	-30

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 80W-140 GL-4

MEETS OR EXCEEDS: API GL-4, DIN 51517 Part 3 (CLP), ISO 12925-1 CKC, US Steel 224, ISO6743 - 6 CKC, SAE J2360, AGMA252.04, MT-1

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 80W-140			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L1.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	232
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	25.4
5	Viscosity Index	D 2270	139
6	Flash Point ,COC,°C	D 92	250
7	Pour Point, °C	D 97	-21

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 85W-90 GL-4

MEETS OR EXCEEDS: API GL-4, DIN 51517 Part 3 (CLP), ISO 12925-1 CKC, US Steel 224, ISO6743 - 6 CKC, SAE J2360, AGMA 252.04, MT-1

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 85W-90			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L1.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	143.2
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	17.8
5	Viscosity Index	D 2270	138
6	Flash Point ,COC,°C	D 92	248
7	Pour Point, °C	D 97	-28

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 85W-140 GL-4

MEETS OR EXCEEDS: API GL-4, DIN 51517 Part 3 (CLP), ISO 12925-1 CKC, US Steel 224, ISO6743 - 6 CKC, SAE J2360, AGMA 252.04, MT-1

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 85W-140			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L1.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	245
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	27.3
5	Viscosity Index	D 2270	145
6	Flash Point ,COC,°C	D 92	250
7	Pour Point, °C	D 97	-21

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 75W-90 GL-5

MEETS OR EXCEEDS: API GL-5, SAE J 2360, MAN 342 S1, Scania STO 2:0, ZF TE-ML 05B, 12L, 12N, 16F, 17B, 19C, 21B

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 75W-90			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L1.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	101
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	15.4
5	Viscosity Index	D 2270	161
6	Flash Point ,COC,°C	D 92	224
7	Pour Point, °C	D 97	-36

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 80W-90 GL-5

MEETS OR EXCEEDS: MAN 342 M1, SCANIA ST0 1.0, VOLVO 1273.10

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 80W-90			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L1.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	155
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	17.5
5	Viscosity Index	D 2270	124
6	Flash Point ,COC,°C	D 92	220
7	Pour Point, °C	D 97	-24

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 85W-90 GL-5

MEETS OR EXCEEDS: API GL-5, Scania ST0 2:0A

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 85W-90			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L1.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	143.2
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	16.5
5	Viscosity Index	D 2270	123
6	Flash Point ,COC,°C	D 92	220
7	Pour Point, °C	D 97	-24

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 85W-140 GL-5

MEETS OR EXCEEDS: MAN 342 M1, SCANIA ST0 1.0, ZF TE-ML 05A

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 85W-140			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.0
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	245
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	27.4
5	Viscosity Index	D 2270	146
6	Flash Point ,COC,°C	D 92	250
7	Pour Point, °C	D 97	-21

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 90 GL-5

MEETS OR EXCEEDS: MAN 342 M1, SCANIA ST0 1.0, VOLVO 1273.10

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 90			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L1.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	155
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	16.5
5	Viscosity Index	D 2270	113
6	Flash Point ,COC,°C	D 92	212
7	Pour Point, °C	D 97	-21

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SAE 90W-140 GL-5

MEETS OR EXCEEDS: MAN 342 M1, SCANIA ST0 1.0, ZF TE-ML 05A

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
SAE 90W-140			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L1.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	362
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	26
5	Viscosity Index	D 2270	97
6	Flash Point ,COC,°C	D 92	232
7	Pour Point, °C	D 97	-27

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



INDUSTRIAL OIL





AW 32

MEETS OR EXCEEDS: CINCINNATI P-68, DIN 51524-2

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	AW 32
1	Appearance	Visual	C & B
2	Color	D 1500	L1.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	32.2
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	5.44
5	Viscosity Index	D 2270	102
6	Flash Point ,COC,°C	D 92	200
7	Pour Point, °C	D 97	-32
8	Rust Test	D 665A	PASS
9	Emulsion Test @54°C	D 1401	PASS
10	Emulsion Test @82°C	D 1401	-

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



AW 46

MEETS OR EXCEEDS: CINCINATI P-70, DIN 51524-2

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	AW 46
1	Appearance	Visual	C & B
2	Color	D 1500	L1.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	46.1
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	6.85
5	Viscosity Index	D 2270	102
6	Flash Point ,COC,°C	D 92	220
7	Pour Point, °C	D 97	-30
8	Rust Test	D 665A	PASS
9	Emulsion Test @54°C	D 1401	PASS
10	Emulsion Test @82°C	D 1401	-

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



AW 68

MEETS OR EXCEEDS: CINCINATI P-69, DIN 51524-2

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	AW 68
1	Appearance	Visual	C & B
2	Color	D 1500	L2.0
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	68.2
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	8.87
5	Viscosity Index	D 2270	102
6	Flash Point ,COC,°C	D 92	230
7	Pour Point, °C	D 97	-24
8	Rust Test	D 665A	PASS
9	Emulsion Test @54°C	D 1401	PASS
10	Emulsion Test @82°C	D 1401	-

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



AW 100

MEETS OR EXCEEDS: CINCINATI P-69, DIN 51524-2

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	AW 100
1	Appearance	Visual	C & B
2	Color	D 1500	L2.0
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	100.3
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	11.32
5	Viscosity Index	D 2270	98
6	Flash Point ,COC,°C	D 92	232
7	Pour Point, °C	D 97	-21
8	Rust Test	D 665A	PASS
9	Emulsion Test @54°C	D 1401	-
10	Emulsion Test @82°C	D 1401	PASS

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



ISO 32

MEETS OR EXCEEDS: ISO-L-DAJ, DIN 51506 VDL, GM LJ-04-3-04, SAE MS1003-2 Type DPJ

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	ISO 32
1	Appearance	Visual	C & B
2	Color	D 1500	L1.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	32.1
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	5.6
5	Viscosity Index	D 2270	113
6	Flash Point ,COC,°C	D 92	226
7	Pour Point, °C	D 97	-27

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



ISO 46

MEETS OR EXCEEDS: ISO-L-DAJ, DIN 51506 VDL, GM LJ-04-3-04, SAE MS1003-2 Type DPJ

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	ISO 46
1	Appearance	Visual	C & B
2	Color	D 1500	L1.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	45.95
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	7.1
5	Viscosity Index	D 2270	113
6	Flash Point ,COC,°C	D 92	230
7	Pour Point, °C	D 97	-27

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



ISO 68

MEETS OR EXCEEDS: ISO-L-DAJ, DIN 51506 VDL, GM LJ-04-3-04, SAE MS1003-2 Type DPJ

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	ISO 68
1	Appearance	Visual	C & B
2	Color	D 1500	L1.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	67.5
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	9.1
5	Viscosity Index	D 2270	110
6	Flash Point ,COC,°C	D 92	230
7	Pour Point, °C	D 97	-24

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



ISO 100

MEETS OR EXCEEDS: ISO-L-DAJ, DIN 51506 VDL, GM LJ-04-3-04, SAE MS1003-2 Type DPJ

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	ISO 100
1	Appearance	Visual	C & B
2	Color	D 1500	L1.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	100.2
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	11.9
5	Viscosity Index	D 2270	109
6	Flash Point ,COC,°C	D 92	236
7	Pour Point, °C	D 97	-21

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



HD 150

MEETS OR EXCEEDS: AISE 224, David Brown S1.53.101(E), AGMA 9005-F16 (AS)

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	HD 150
1	Appearance	Visual	C & B
2	Color	D 1500	L2.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	150.1
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	14.72
5	Viscosity Index	D 2270	97
6	Flash Point ,COC,°C	D 92	234
7	Pour Point, °C	D 97	-21

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



HD 220

MEETS OR EXCEEDS: AISE 224, David Brown S1.53.101(E), AGMA 9005-F16 (AS)

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	HD 220
1	Appearance	Visual	C & B
2	Color	D 1500	L2.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	221.5
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	18.92
5	Viscosity Index	D 2270	96
6	Flash Point ,COC,°C	D 92	236
7	Pour Point, °C	D 97	-18

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



HD 320

MEETS OR EXCEEDS: AISE 224, David Brown S1.53.101(E), AGMA 9005-F16 (AS)

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	HD 320
1	Appearance	Visual	C & B
2	Color	D 1500	L2.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	320.4
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	24.1
5	Viscosity Index	D 2270	96
6	Flash Point ,COC,°C	D 92	240
7	Pour Point, °C	D 97	-18

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



HD 460

MEETS OR EXCEEDS: AISE 224, David Brown S1.53.101(E), AGMA 9005-F16 (AS)

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	HD 460
1	Appearance	Visual	C & B
2	Color	D 1500	L3.0
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	461.2
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	30.3
5	Viscosity Index	D 2270	95
6	Flash Point ,COC,°C	D 92	250
7	Pour Point, °C	D 97	-18

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



VACUUM PUMP OIL

MEETS OR EXCEEDS: ISO 6743-3-L-DVC, GOST: 23013-78 specification for vacuum pumps oil and is recommended for high vacuum producing diffusion pumps

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	RESULTS
VACUUM PUMP OIL ISO VG 68			
1	Appearance	Visual	C & B
2	Color	D 1500	L1.0
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	68.3
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	9.21
5	Viscosity Index	D 2270	111
6	Flash Point ,COC,°C	D 92	230
7	Pour Point, °C	D 97	-21

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



SOLUBLE CUTTING FLUID

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	VALUE
1	Color	VISUAL	REDISH BROWN
2	Kinematic, Viscosity mm ² /s @ 40°C	ASTM D445	53
3	pH @5%	ASTM D1287	9.5
4	Flash Point ,COC,°C	ASTM D 92	190
5	Emulsion Stability	ASTM D1479	PASS

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



MARINE ENGINE OIL

MEETS OR EXCEEDS: 2 STROKE, OUTBOARD TCW-3, NMMA

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
2 STROKE MARINE OUTBOARD TCW3			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	BLUE
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	57.7
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	9.1
5	Viscosity Index	D 2270	137
6	Flash Point ,COC,°C	D 92	110
7	Pour Point, °C	D 97	-36

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk



AGRICULTURE GEAR OIL

TECHNICAL DATA			
S. No.	DESCRIPTION	METHOD	TYPICAL RESULTS
UTTO 10W-30			
1	Appearance	Visual	Clear & Bright
2	Color	D 1500	L2.5
3	Kinematic, Viscosity mm ² /s @ 40°C	D 445	78.64
4	Kinematic, Viscosity mm ² /s @ 100°C	D 445	11.6
5	Viscosity Index	D 2270	140
6	Flash Point ,COC,°C	D 92	220
7	Pour Point, °C	D 97	-39

AVAILABLE PACKS

1L, 4L, 5L, 20L, 25L, 208L, Bulk

