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OEHC® CK-4 15W40 DIESEL MOTOR OIL

OEHC® CK-4 15W-40 Motor Oils are for use in diesel engines under service conditions from mild to heavy duty with fuel of any sulfur level. These oils are recommended for use in nearly all two- and four-cycle diesel applications. The current formulation meets all API Service Classifications up to CK-4 including CJ-4, CI-4, CI-4 PLUS, and CH-4. OEHC® CK-4 15W-40 Motor Oils are also suitable where Cummins CES 20086, Mack EOS-4.5, Detroit Diesel DDC93K222, Volvo VDS-4.5, Renault VI RLD-4, CAT® ECF-3 and ECF-1-a, MAN 3575, JASO DH-2, Ford WSS-W2C171-E, MB 228.31, Deutz DQC III-10 LA, and ACEA E7-12 and E9-12 specifications are demanded.

This oil should not be used in Caterpillar TO-4 applications, two-cycle gasoline engines, aircraft engines, or EMD Diesel engines.

Typical Properties:

Product: OEHC® CK-4 15W-40	
Product Code:	71119
SAE Viscosity Grade	15W-40
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	15.40
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	115.40
Viscosity Index (ASTM D-2270)	140
Total Base Number (ASTM D-2896)	10
Flash Point °C (°F) (ASTM D-92)	241
Pour Point °C (°F) (ASTM D-97)	-32
Zn (ppm)	1250
Ca (ppm)	2360
P (ppm)	0.112

Revision January 09, 2017

OEHC® FULL SYNTHETIC CK-4 15W40 DIESEL MOTOR OIL

OEHC® Full Synthetic CK-4 Motor Oil is for use in diesel engines under service conditions from mild to heavy duty with fuel of any sulfur level. It is recommended for use in nearly all two- and four-cycle diesel applications. The current formulation meets the performance levels of all API Service Classifications up to CK-4 including CJ-4, CI-4, CI-4 PLUS, and CH-4. OEHC® Full Synthetic CK-4 Motor Oil is also suitable where Cummins CES 20086, Mack EOS-4.5, Detroit Diesel DDC93K222, Volvo VDS-4.5, Renault VI RLD-4, CAT® ECF-3 and ECF-1-a, MAN 3575, JASO DH-2, Ford WSS-W2C171-E, MB 228.31, Deutz DQC III-10 LA, and ACEA E7-12 and E9-12 specifications are demanded.

This oil should not be used in Caterpillar TO-4 applications, two-cycle gasoline engines, aircraft engines, or EMD Diesel engines.

Typical Properties:

Product: OEHC® Full Synthetic CK-4 15W-40 Motor Oil	
Product Code:	71169
SAE Viscosity Grade	15W-40
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	15.6
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	110.8
Viscosity Index (ASTM D-2270)	149
Total Base Number (ASTM D-2896)	10
Flash Point °C (ASTM D-92)	241
Pour Point °C (ASTM D-6749)	-33
Zn (ppm)	1250
Ca (ppm)	2360
P (ppm)	1120
Noack Volatility, evaporation loss %, 1 hr. @250°C (ASTM D5800)	6

Revision August 4, 2017

OEHC® CF-2 / SL DIESEL MOTOR OILS

OEHC® CF-2, CF/SL Diesel Motor Oils are for use in diesel engines under service conditions from mild to heavy duty with fuel of any sulfur level. The current formulations meet API Service Classifications up to CF, CF-2. Several viscosity grades are also suitable where Allison C-4 or Caterpillar TO-2 fluids are specified. Follow the performance specifications below.

These oils should not be used in Caterpillar TO-4 applications, two-cycle gasoline engines, aircraft engines, or EMD Diesel engines. Always follow manufacturer's recommendations for API specification and grade.

Performance Specifications:

Product Code	1111	1112	1113	1114	1115
Specification	10W	20W	30	40	50
API CD*	X	X	X	X	X
API CD-II*			X	X	X
API CE*	X	X	X	X	X
API CF	X	X	X	X	X
API CF-2			X	X	X
API SH	X	X	X	X	X
API SJ		X	X	X	X
API SL		X	X	X	X
Allison C-4	P		P		
CAT TO-2	X	X	X	X	

X = Meets requirements

* = Obsolete Service Category

P = Meets performance requirements, follow viscosity

Typical Properties:

Product: OEHC® CF, CF-2/SL Monograde Diesel Motor Oils					
Product Code	1111	1112	1113	1114	1115
SAE Viscosity	10W	20W	30	40	50
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	7.0	8.5	11.0	14.0	18.0
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	44	63	95	135	200
Viscosity Index (ASTM D-2270)	110	105	105	100	100
API Gravity (ASTM D-1298)	30.8	30.0	28.0	27.0	27.0
Sulfated Ash, % (ASTM D-874)	1.20	1.20	1.20	1.20	1.20
Total Base Number (ASTM D-2896)	9.0	9.0	9.0	9.0	9.0

Revision July 25, 2012

OEHC® CH-4 / SJ DIESEL MOTOR OILS

OEHC® CH-4/SJ Diesel Motor Oils are for use in diesel engines under service conditions from mild to heavy duty with fuel of any sulfur level. These diesel engine oils are recommended for use in many older two- and four-cycle diesel applications. These formulations meet the API CH-4/SJ service classification and are also recommended for use in older API service classifications such as CD.

OEHC® CH-4/SJ Diesel Motor Oils deliver superior performance by protecting against corrosion, soot thickening, sludge formation, and valve train, ring, and liner wear. An advanced detergent system neutralizes impurities to prevent deposit formation on engine parts.

These oils should not be used in Caterpillar TO-4 applications, two-cycle gasoline engines, aircraft engines, or EMD Diesel engines. Always follow equipment manufacturer's recommendations on viscosity and service categories.

Typical Properties:

Product: OEHC® CH-4/SJ Diesel Motor Oils					
SAE Viscosity Grade	10W-30	30	40	50	20W-50
Product Code	90592	90591	90593	90594	90275
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	11.2	11.4	14.2	18.6	17.0
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	70.7	100.3	138.0	205.8	142.3
Viscosity Index (ASTM D-2270)	151	100	100	100	130
API Gravity (ASTM D-1298)	31.2	27.5	27.5	27.5	29.3
Zinc, ppm	1300	1300	1300	1300	1300
TBN, mg KOH/g	10.5	10.5	10.5	10.5	10.5

Revision November 13, 2015

OEHC® SAE 25W60 API CF-4 / SG DIESEL MOTOR OILS

OEHC® CF-4/SG Diesel Motor Oils are for use in diesel engines under service conditions from mild to heavy duty with fuel of any sulfur level. These diesel engine oils are recommended for use in many older two- and four-cycle diesel applications. These formulations meet the API CF-4/SG service classification and are also recommended for use in older API service classifications such as CD.

OEHC® CF-4/SG Diesel Motor Oils deliver superior performance by protecting against corrosion, soot thickening, sludge formation, and valve train, ring, and liner wear. An advanced detergent system neutralizes impurities to prevent deposit formation on engine parts.

These oils should not be used in Caterpillar TO-4 applications, two-cycle gasoline engines, aircraft engines, or EMD Diesel engines. Always follow equipment manufacturer's recommendations on viscosity and service categories.

Typical Properties:

Product: OEHC® CF-4/SG Diesel Motor Oils	
SAE Viscosity Grade	25W-60
Product Code	90588
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	22.6
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	216.1
Viscosity Index (ASTM D-2270)	128
API Gravity (ASTM D-1298)	29.3
Zinc, ppm	1300
TBN, mg KOH/g	7.5

Revision November 13, 2015

OEHC® API SP 15W-40 MOTOR OIL

OEHC® API Service SP 15W-40 Motor Oil is designed to meet the high performance requirements of the current API SP service category introduced in 2020. OEHC® API SP 15W-40 Motor Oil use high quality petroleum base stocks along with state of the art additive technology to create high quality motor oil for use in gasoline powered engines, including turbocharged GDI engines. This oil provides excellent protection against wear and deposits in the engine, while extending the life of emission control components. They also help prevent occurrences of LSPI (low speed pre-ignition), which can cause damage to engines. This premium blend of motor oil allows up to 5,000 miles between oil changes.

OEHC® API Service SP 15W-40 Motor Oil meets or exceeds the American Petroleum Institute's (API) SP specification. This oil is fully backward compatible to all older API gasoline powered engine specifications such as SN Plus, SN, SM, SL, etc.

Always follow manufacturer's recommendations for service classification, viscosity grade and drain intervals.

Typical Properties:

Product: OEHC® SP 15W-40 Motor Oils		
SAE Viscosity Grade	15W-40 Conventional	15W-40 Synthetic Blend
API Classification	SP	SP
Product Code	53129	53179
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	15.5	15.3
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	121.6	121.9
Viscosity Index (ASTM D-2270)	134	137
Total Base Number (ASTM D-2896)	7.3	7.3
Zn (ppm)	820	820
Ca (ppm)	1360	1360
Mg (ppm)	400	400

Revision August 05, 2020

OEHC® CONVENTIONAL MOTOR OILS API SP

OEHC® Conventional API Service SP Motor Oils are designed to meet the high performance requirements of the current API SP service category introduced in 2020. OEHC® Conventional API SP Motor Oils use premium petroleum base stocks along with state of the art additive technology to create a high quality motor oil for use in gasoline powered engines, including turbocharged GDI engines. These oils provide excellent protection against oxidation, wear and deposits in the engine, while extending the life of emission control components. They also help prevent occurrences of LSPI (low speed pre- ignition), which can cause damage to engines and provide outstanding protection against timing chain wear.

OEHC® Conventional API Service SP Motor Oils formally carry the American Petroleum Institute’s (API) SP approvals, and the 5W-20, 5W-30, and 10W-30 viscosities are Resource Conserving and ILSAC GF-6A approved. The API donut and ILSAC starburst identify oils which have undergone the necessary testing to meet the current automotive specification. These oils are fully backwards compatible to all older API gasoline powered engine specifications such as SN PLUS, SN, SM, etc.

Always follow manufacturer’s recommendations for service classification, viscosity grade and drain intervals.

Typical Properties:

Product: OEHC® SP Conventional Motor Oils					
SAE Viscosity Grade	5W-20	5W-30	10W-30	10W-40	20W-50
API Classification, (ILSAC Classification)	SP (GF-6A)	SP (GF-6A)	SP (GF-6A)	SP	SP
Product Code	53125	53126	53127	53128	53120
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	8.3	10.5	10.4	14.8	19.1
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	47.5	61.9	69.9	104.0	162.9
Viscosity Index (ASTM D-2270)	150	160	135	148	134
Total Base Number (ASTM D-2896)	8	8	8	8	8
Zn (ppm)	810	810	810	810	810
Ca (ppm)	720	720	720	720	720
Mg (ppm)	830	830	830	830	830
P (ppm)	650	650	650	650	650

Revision June 18, 2020

OEHC® API SP SYNTHETIC BLEND MOTOR OILS

OEHC® API Service SP Synthetic Blend Motor Oils are designed to meet the high performance requirements of the current API SP service category introduced in 2020. OEHC® API SP Synthetic Blend Motor Oils use premium conventional and synthetic base stocks along with state of the art additive technology to create a high quality motor oil for use in gasoline powered engines, including turbocharged GDI engines. These oils provide excellent protection against oxidation, wear and deposits in the engine, while extending the life of emission control components. They also help prevent occurrences of LSPI (low speed pre-ignition), which can cause damage to engines and provide outstanding protection against timing chain wear.

OEHC® Synthetic Blend API Service SP Motor Oils formally carry the American Petroleum Institute’s (API) SP approvals and are Resource Conserving and ILSAC GF-6A approved. The API donut and ILSAC starburst identify oils which have undergone the necessary testing to meet the current automotive specification. These oils are fully backwards compatible to all older API gasoline powered engine specifications such as SN PLUS, SN, SM, etc.

Always follow manufacturer’s recommendations for service classification, viscosity grade and drain intervals.

Typical Properties:

Product: OEHC® SP Synthetic Blend Motor Oils			
SAE Viscosity Grade	5W-20	5W-30	10W-30
API Classification, (ILSAC Classification)	SP (GF-6A)	SP (GF-6A)	SP (GF-6A)
Product Code	53175	53176	53177
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	8.1	11.0	10.1
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	46.2	66.7	61.9
Viscosity Index (ASTM D-2270)	150	157	150
Total Base Number (ASTM D-2896)	7.3	7.3	7.3
Zn (ppm)	740	740	740
Ca (ppm)	790	790	790
Mg (ppm)	735	735	735
P (ppm)	680	680	680

Revision August 05, 2020

OEHC® FULL SYNTHETIC API SP MOTOR OILS

OEHC® SP Full Synthetic Motor Oils are designed to meet the high performance requirements of the current API SP service category introduced in 2020. OEHC® API SP Full Synthetic Blend Motor Oils use high quality synthetic base stocks along with state of the art additive technology to create a high quality motor oil for use in gasoline powered engines, including turbocharged GDI engines. These oils provide excellent protection against wear and deposits in the engine, while extending the life of emission control components. They also help prevent occurrences of LSPI (low speed pre-ignition), which can cause damage to engines.

OEHC® SP Full Synthetic Motor Oils formally carry the American Petroleum Institute’s (API) SP approval, and proper viscosities are also ILSAC GF-6 approved and are considered Resource Conserving. These formal approvals are denoted by the API donut and ILSAC starbursts identifying oils which have undergone the necessary testing and monitoring by the API to verify the product meets the current automotive specification. These oils are also fully backwards compatible to all older API gasoline powered engine specifications such as SN PLUS, SN, SM, etc.

As with any lubricant, always follow manufacturer’s recommendations for proper service classification and viscosity grade.

Typical Properties:

Product: OEHC® Full Synthetic SP Motor Oils				
SAE Viscosity Grade	0W-20	5W-20	5W-30	10W-30
API Classification, (ILSAC Classification)	SP (GF-6A)	SP (GF-6A)	SP (GF-6A)	SP (GF-6A)
Product Code	53162	53165	53166	53167
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	8.4	8.9	10.9	10.3
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	44.6	48.8	62.2	62.6
Viscosity Index (ASTM D-2270)	169	163	168	153
Total Base Number (ASTM D-2896)	7	7	7	7
Zn (ppm)	760	710	710	710
Ca (ppm)	800	760	760	760
Mg (ppm)	750	700	700	700
P (ppm)	700	655	655	655

Revision August 05, 2020

OEHC® PREMIUM TC-W3 TWO-STROKE ENGINE OIL

OEHC® Premium TC-W3 Two-Stroke Engine Oil has been specifically formulated to meet the requirements for conventional and direct fuel injection (DFI) outboard two-stroke engines as set forth by the most current National Marine Manufacturers Association (NMMA) TC-W3 service classification. OEHC® Premium NMMA TC-W3 Two-Stroke Engine Oil is versatile; recommended for use in two-stroke outboards, ATVs, snowmobiles, and personal water crafts.

OEHC® Premium TC-W3 Two-Stroke Engine Oil protects against excessive wear and deposit formation. The specialty additive package offers added lubricity and extended engine life.

OEHC® Premium TC-W3 Two Stroke Engine Oil provides excellent lubrication and wear protection for today's two-stroke engines. In accordance with continuing environmental concerns, this product utilizes an ash less formulation with high quality components that makes the exhaust from this two-stroke engine oil nearly smokeless. OEHC® Premium TC-W3 Two-Stroke Engine Oil exceeds the requirements of API TC.

This two-stroke engine oil has been dyed blue for easy visual recognition.

Typical Properties:

Product: OEHC® Premium TC-W3 Two-Stroke Engine Oil	
Product Code	90100
Color	Blue
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	7.3
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	45.5
Viscosity Index (ASTM D-2270)	128
API Gravity (ASTM D-1298)	30.9

Revision August 8, 2012

OEHC® AUTOMATIC TRANSMISSION FLUID (ATF) M/D III

OEHC® Automatic Transmission Fluid M/D III is formulated from select highly refined base oils blended with a specially balanced additive combination. This product has outstanding high temperature oxidation resistance, dispersions and detergency, offers excellent protection against corrosion, wear and rust, and is compatible with the various automatic transmission components such as elastomeric seals and plastic parts.

OEHC® ATF M/D III's high viscosity index permits use over a wide temperature range by providing excellent low temperature fluidity and at the same time retaining the desired viscosity at high temperatures. It contains special friction modifiers that provide the smooth lock-ups required by the ATF specifications.

OEHC® ATF M/D III is recommended for use in most types of automatic transmissions model year 2005 and earlier. This generally includes all automatic transmissions except those specifying Ford M2C33-F (Type F) fluids. It may also be used in Allison automatic transmissions, including those that require C-4 fluids, and CATERPILLAR® transmissions requiring TO-2 performance. It satisfies Ford specifications M2C138-CJ and M2C166-H.

Always follow manufacturer's recommendations for fluid type and specification.

Typical Properties:

Product:	OEHC® ATF M/D III
Product Code	1311
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	7.0
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	33.4
Viscosity Index (ASTM D-2270)	179
API Gravity (ASTM D-1298)	33.6

Revision October 30, 2014

OEHC® SYNTHETIC BLEND MERCON V ATF

OEHC® Synthetic Blend Mercon® V ATF is an automatic transmission fluid specifically designed to work in a wide variety of automatic transmissions. This formulation has been extensively field tested to demonstrate the fluid's compatibility in a variety of types and brands of automatic transmissions.

OEHC® Synthetic Blend Mercon® V ATF demonstrates excellent protection from wear, sludge buildup, and corrosion in the transmission. Refer to table for compatibility with specific types of transmissions.

OEHC® Synthetic Blend Mercon® V ATF:

- Protects metal parts from corrosion
- Provides excellent oxidative stability under severe conditions
- Reduces sludge and varnish build-up
- Protects transmission gears and allows them to operate smoothly
- Maintains lubricity
- Resists foaming
- Flows well for cold start-up
- Provides excellent shift feel with no shudder
- Prevents fluid breakdown at higher operating temperatures
- Has been thoroughly field tested
- Is compatible with seals

* Ford and MERCON are registered Trademarks of the Ford Motor Company. This is not a licensed Ford product.

Typical Properties:

Product: OEHC® Synthetic Blend Mercon V ATF	
Product Code	1055513
Color	Red
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	7.6
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	34.0
Viscosity Index (ASTM D-2270)	202
API Gravity (ASTM D-1298)	33.6
Brookfield Viscosity @ -40°C, cP (ASTM D-2983)	10,200
Pour Point, °C (°F) (ASTM D97)	<-45 (<-49)
Flash Point, °C (°F) (ASTM D92)	196 (385)

OEHC® Synthetic Blend Mercon® ATF is suitable for use where these specifications are needed:

- Ford Mercon®
- Ford Mercon® V
- Ford FNR5 ATF
- Allison C-4
- AC Delco AW-1, T-IV
- Apolloil ATF Red-1K
- Mopar® ATF+3®, ATF+4®, AS68RC ATF
- Esso LT 71141
- Audi G 052 162, G 055 025, G 055 005, G 055 162, G 055 540, 060 162
- Honda ATF-Z1
- Hyundai/Kia SP-III, and SP-IV
- JASO M315 Class 1A
- JWS 3309
- Isuzu Genuine ATF
- Idemitsu K17
- Mazda ATF M-V
- Saab 93 165 147
- Mercedes Benz: All models (1990-1995), Models with 5-speed (722.5/6/6) (1996-2010)
- Mitsubishi/Kia Diamond SP-III, and Diaqueen ATF J3
- ATF Type WS
- ATF Type T
- Nissan Matic-D, J, K, and S
- GM Dexron® II, III
- Shell 3403 , 3403 M115, LA2634
- Subaru ATF
- Suzuki 3314 and 3317
- Texaco ETL-7045E, ETL-8072B
- Toyota T, T-II, T-III, and T-IV
- Voith DIWA
- VW G 052 025, G 052 990, G 055 005, G 055 540
- ZF Ecomat

OEHC[®] Synthetic Blend Mercon[®] V ATF is not recommended for: Continuous variable transmissions (CVT), Allison TES-389, Dexron[®] VI, Ford Type F, Ford Mercon[®] SP & LV, Mercedes Benz 236.8 and 236.15, or in most 6-speed or 7-speed automatic transmissions. Always follow manufacturers' recommendations.

Revision August 8, 2016

OEHC® GL-1 GEAR OILS

OEHC® GL-1 Gear Oils are non-detergent, general purpose lubricants. OEHC® GL-1 Gear Oils are a mixture of petroleum base stocks to achieve a viscosity equivalent to SAE 90 and SAE 140 gear oils. These lubricants are efficient for many types of general lubrication where no performance additives are needed.

API GL-1 gear oils are often required for spiral-bevel and worm gears and some manual transmissions without synchronizers in trucks or farming equipment. Always follow manufacturer's recommendation for quality certification and SAE viscosity grade.

Typical Properties:

Product: OEHC® GL-1 Gear Oils		
Product Code	1441	1442
SAE Viscosity Grade, J306	90	140
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	15.48	28.6
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	163.49	419.4
Viscosity Index (ASTM D-2270)	96	95
API Gravity (ASTM D-1298)	29.6	28.0

Revision November 16, 2015

OEHC® MULTI - PURPOSE GEAR OILS

OEHC® Multi-Purpose Gear Oils are used for the lubrication of gears operating under severe conditions, including automotive applications. High quality HVI base stocks blended with a sulfur- phosphorous extreme pressure additive package provided superior performance including anti-weld, anti-scuff, and anti-wear properties.

OEHC® Multi-Purpose Gear Oils are available in API GL-4 and GL-5 performance levels. The GL- 4 level is designed for spiral-bevel and hypoid gears under moderate speeds and loads. This level is recommended for some manual transmissions and transaxles.

OEHC® GL-5 Multi-Purpose Gear Oils have multi-grade characteristics and are recommended for hypoid gears in moderate and severe service, including shock-loading, and some manual transmissions. GL-5 Gear Oils also meet the MIL-L-2105D specification.

OEHC® GL-4, GL-5 Multi-Purpose Gear Oils are not intended for use in automotive gear boxes that require a limited slip gear oil, these applications are covered by OEHC® LS GL-5 gear oils. Always follow manufacturers' recommendations for correct type and viscosity grade of gear lubricant.

Typical Properties:

Product: OEHC® GL-4 and GL-5 Gear oils				
Product Code	1421	1422	1411	1412
API Classification	GL-4	GL-4	GL-5	GL-5
SAE Viscosity Grade	90	140	80W-90	85W-140
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	14.8	30.2	15.6	27.2
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	149.5	415.0	160.7	378.1
Viscosity Index (ASTM D-2270)	98	98	99	97
API Gravity (ASTM D-1298)	28.3	28.0	28.2	26.3

Revision July 26, 2012

OEHC® SYNTHETIC GL-5 LS SAE 75W-90 GEAR OIL

OEHC® Synthetic 75W-90 GL-5 Limited Slip Gear Oils is a fully synthetic automotive gear oil that provides premium protection under severe conditions, aids in temperature reduction, and axle efficiency.

OEHC® Synthetic 75W-90 GL-5 Limited Slip Gear Oil has multi-grade characteristics and is recommended for hypoid gears in moderate and severe service, including shock-loading, and some manual transmissions. OEHC® Synthetic 75W-90 GL-5 Limited Slip Gear Oil meets the performance specifications of API GL-5 and is formally approved for Meritor O76-E and O76- N, SAE J2360, and Mack GO-J and GO-H/S specifications. OEHC® Synthetic 75W-90 GL-5 Limited Slip Gear Oil is also suitable for use where General Electric D-50E9C and Harnishfeger P&H 474 specifications are required. It is also heavy-duty, severe-service, 500,000-mile drain capable. In addition, OEHC® Synthetic 75W-90 GL-5 Limited Slip Gear Oil is formulated with limited-slip additives that meet the performance specifications for service-fill limited-slip applications.

OEHC® Synthetic 75W-90 GL-5 Limited Slip Gear Oil also meets API category MT-1 for truck manual transmissions.

Typical Properties:

<i>Product:</i>	OEHC® Synthetic LS GL-5 Gear Oil	
Product Code		1451
SAE Viscosity		75W-90
Kinematic Viscosity @ 100 °C cSt (ASTM D-445)		17.0
Kinematic Viscosity @ 40 °C cSt (ASTM D-445)		115.0
Viscosity Index (ASTM D-2270)		160
API Gravity (ASTM D-1298)		30.5

Revision December 03, 2013

OEHC[®] SYNTHETIC GL-5 LS GEAR OILS

OEHC[®] Synthetic GL-5 Limited Slip Gear Oils are fully synthetic automotive gear oils that provide premium protection under severe conditions, aid in temperature reduction and axle efficiency.

OEHC[®] Synthetic GL-5 Limited Slip Gear Oils have multi-grade characteristics and are recommended for hypoid gears in moderate and severe service, including shock-loading, and some manual transmissions.

OEHC[®] Synthetic GL-5 Limited Slip Gear Oils meet API GL-5 specifications, and are also suitable for use where General Electric D-50E9C and Harnishfeger P&H 474 specifications are required. They are also heavy-duty, severe-service, 500,000-mile drain capable. In addition, OEHC[®] Synthetic GL-5 Limited Slip Gear Oils are formulated with limited-slip additives that meet the performance specifications for service-fill limited-slip applications.

OEHC[®] Synthetic GL-5 Limited Slip Gear Oils also meet API category MT-1 for truck manual transmissions.

Typical Properties:

Product:	OEHC [®] Synthetic GL-5 Limited Slip Gear Oils	
Product Code	1452	1453
SAE Viscosity	75W-140	80W-90
Kinematic Viscosity @ 100 °C cSt (ASTM D-445)	28.0	15.0
Kinematic Viscosity @ 40 °C cSt (ASTM D-445)	200.0	101.4
Viscosity Index (ASTM D-2270)	185	154
API Gravity (ASTM D-1298)	33	31

Revision October 11, 2013

OEHC® TO-4 FLUIDS

OEHC® TO-4 Fluids are formulated to meet the CATERPILLAR® TO-4 transmission specification. These fluids provide smooth power transfer in the extreme operating conditions of modern heavy-duty equipment. OEHC® TO-4 Fluids do not contain VI improvers or friction modifiers and are available in SAE 10W, 30, 50 and 60 monograde. TO-4 Fluids meet the obsolete CAT® TO-2 specifications and the SAE 10W and 30 grades can be used in Allison C-4 applications.

OEHC® SAE 10W TO-4 Fluid is suitable for use in equipment calling for CAT® HYDO™ Advanced 10. Other manufacturers using a TO-4 type fluid are Eaton Powershift, Komatsu- Dresser, and Terex. Consult manufacturer’s recommendations before using.

OEHC® TO-4 Fluids can be used where the following specifications are required:

- CAT® TO-4 (formal approvals are not issued)
- CAT® TO-2 (OBSOLETE)
- Allison C-4 (off-road applications) Komatsu Micro Clutch (formal approvals are not issued)
- Komatsu Equipment (formal approvals are not issued)
- Vickers M-2950-S Dana Powershift* Tremac/TTC* Eaton Fuller*
- CAT® HYDO™ Advanced 10 **

* Where TO-4 is called for

**SAE 10W viscosity grade

Always follow equipment manufacturer’s recommendations for proper fluid type. TO-4 fluids ARE NOT for use in farm tractors requiring transmission hydraulic fluids.

Typical Properties:

Product	OEHC® TO-4 Fluids			
SAE Viscosity Grade	10W	30	50	60
Product Code	1301	1303	1305	1306
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	6.5	11.0	19.0	23.0
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	44.0	104.0	250.0	283.0
Viscosity Index (ASTM D-2270)	105	105	100	100
Total Base Number (ASTM D-2896)	7.5	7.5	7.5	7.5
API Gravity (ASTM D-1298)	30.0	29.1	27.0	26.6

Revision July 26, 2012

OEHC® TRACTOR FLUID (J-20C)

OEHC® Tractor Fluid fulfills the torque transfer, hydraulic, and power transmission requirements of farm tractors and implements. Specifically, it has been tailored to:

- Lubricate the transmission, differential and final drive gears
- Act as a power steering, power brake, power take-off, hydraulic, and implement drive fluid
- Provide a medium with the correct friction stability and heat transfer properties for proper operation of the tractor wet brakes and power take-off units.

OEHC® Tractor Fluid is an outstanding product for tractor lubrication. Its superior extreme pressure and anti-wear performance protects tractor transmissions, axles, and hydraulic pumps. The frictional characteristics of the fluid minimize “chatter” while enabling the proper operation of wet brakes. These characteristics provide smooth engagement of the power take- off clutch.

OEHC® Tractor Fluid provides excellent rust and corrosion protection and good oxidation stability for high temperature service. Tractor Fluid is a SAE viscosity grade 10W-30 and meets API GL-4 gear oil specifications. OEHC® Tractor Fluid should not be used where a Caterpillar TO-4 fluid is required.

Typical Properties:

Product: OEHC® Tractor Fluid	
SAE Viscosity Grade	10W-30
Product Code	1200
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	10.80
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	66.00
Viscosity Index (ASTM D-2270)	150
Ash, wt%	1.30

OEHC® Tractor Fluid is recommended for use in most hydraulic fluid and transmission oil applications for tractors and implements including:

- AGCO: Massey Ferguson M-1145, M-1143, M-1141, M-1138, M-1135 Permatran III, White Q-1826
 - Massey Ferguson M-1110, 1127 (A&B), 1129A Permatran, 1139
 - Oliver: Type 55, 5J
 - New Idea Q1802
 - Minneapolis-Moline/White: Q-1705, 1722, 1766, 1766B (UTHF), 1802
 - Deutz: Hyd Trans Fluid; Deutz-Allis 25743, 272843; Allis-Chalmers PowerFluid PF-821 & PF821 XL, 25741, 246634 Hydr Trans Fluid
 - Landini Tractor Hydraulic Fluid
 - AGCO-Allis
- Allison C-4 (as part of JD20C)
 - Allison C-2, C-3
- API GL-4
- Case New Holland MAT 3505 , MAT 3506
 - JI Case MS-1204, 1205, 1206 (Powergard PFT), 1207 (HyTran Plus), 1209 (HyTran Ultra or Multi Tran)
 - JI Case MS-1210
 - IHC B-5 (International Harvester), B-6 HyTran
- Case New Holland MAT 3525 &3526, ESN M2C86B
 - FNHA-2-C-200, FNHA-2-C-201, JI Case MS-1216, MS-123-, MS-1317, MS-143, 144, 1145 (TCH Fluid), MS-185 (TFD Fluid), M2C (A-C), ESN-M2C134A, B, C, D; ESN-M2C-77A, ESN- M2C86-A&C, ESN-M2C-41B, ESN-M2C-43, ESN-M2C-48B&C, ESN-M2C53-A&B, ESN- 142A, ESN-M2C143, ESN-M2C92A, ESN-M2C159 (A,B,C)
 - International Farmall JIC-143, 144, 145, JIC185
 - Versatile Gear & Hydraulic Transmission Fluid, 23 M &24M
 - Renk-Doromat 873 or 874 A/B Bus Automatic Transmission Fluid
 - Fiat-Hesston AF-87
 - Valcatores, Steiger HTF (SEMS 17001)
- Eaton Vickers
 - Sperry Vickers/Eaton I-286-S, M-2950-S
- JCMAS (Japanese Construction Mechanization Association) HK P-041 &P-042
- John Deere J-20C
 - J14 (A,B,C), JDT303, J20A,B HyGard, J121A, Quatrol
- Komatsu
- Kubota UDT
 - M80B &Yanmar
- Parker (Dennison UTTO, HF-0,1,2)
- Volvo (VCE 1273.03, WB101)

- Other
 - Steiger Hydr Trans Fluid
 - Sauer Sunstrand/Danfoss Hydro Static Trans Fluid

Key:

- Active Specification
 - Obsolete specification superseded by corresponding active UTHF specification

Revision August 19, 2014

OEHC® ANTI - WEAR HYDRAULIC OILS

OEHC® Anti-Wear (AW) Hydraulic Oils are superior anti-wear hydraulic and circulating fluids specially formulated with high quality base stocks and improved thermally stable zinc additives. These oils offer outstanding resistance to sludge formation, are chemically stable, and exhibit excellent anti-wear properties. OEHC® AW Hydraulic Oils also contain anti-foam agents to limit air entrainment in hydraulic systems and demulsifies to separate water from the oil in the sump.

OEHC® AW Hydraulic Oils are recommended for service in vane, piston, and gear pumps when used according to the manufacturers' recommendations. The oils provide maximum service life to these pumps as well as other system components. OEHC® AW Hydraulic Oils ISO 10 and ISO 22 products can also be used as spindle lubricants.

OEHC® AW Hydraulic Oils meet the following specifications:

- Denison HF-0, 1, and 2
- Eaton Vickers M-2950-S, I-286-S, E-FDGN- TB002-E
- Fives Cincinnati P-68, 69, 70
- ISO 11158, 6743/4
- US Steel 126, 127, and 136
- DIN 51524 Part 2
- BoschRexroth RDE 90235 (ISO 32)
- German Steel Industry SEB 181222
- VDMA 24318

Typical Properties:

Product:	OEHC® Anti-Wear Hydraulic Oils						
ISO Viscosity	10	22	32	46	68	100	150
Product Code	90418	1211	1212	1213	1214	1215	1216
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	2.76	4.6	5.6	7.0	8.7	11.4	15.0
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	11.2	23.2	31.6	45.3	65.6	100.0	150.0
Viscosity Index (ASTM D-2270)	77	117	116	113	106	100	100
RPVOT, min (ASTM D-2272)	(no data)	300	300	300	300	200	200
Emulsion Separation, min (ASTM D-1401)	(no data)	10	10	15	15	15	15
Pour Point, °C (ASTM D-5949)	-51	-42	-36	-33	-30	-30	-27
Flash Point, °F (ASTM D-92)	(no data)	(no data)	435	446	470	(no data)	(no data)
TOST, hours (ASTM D-943)	(no data)	(no data)	5,000+	5,000+	5,000+	(no data)	(no data)

OEHC® R&O HYDRAULIC AND TURBINE OILS

OEHC® R&O Hydraulic and Turbine Oils are formulated with rust and oxidation inhibitors for use in hydraulic systems calling for non-AW fluids, turbines, and as a general bearing lubricant. These oils are made from selected high viscosity index paraffinic base stocks and premium quality additives to give outstanding performance.

The base oils' high viscosity index imparts superior temperature-viscosity characteristics. Long service life in closed circulation systems is assured by low carbon-forming tendency and excellent resistance to oxidation, rust and foaming. The versatility of OEHC® R&O Hydraulic and Turbine Oils makes them suitable for a wide variety of applications in industrial fields. They give excellent service in a range of chain and enclosed gear drives, turbines, and are recommended in hydraulic systems where a high-quality non- AW hydraulic fluid is specified, including heat transfer applications.

OEHC® R&O Hydraulic and Turbine Oils are also suitable for use in the circulating systems of a large variety of industrial machinery, and for the lubrication of electric motors and turbo-generators where R&O hydraulic oil is recommended.

These lubricants do not contain anti-wear additives and should not be used where an anti-wear hydraulic fluid is required. They are zinc-free, allowing them to be used in systems containing silver bearings, or otherwise requiring zinc-free oil.

OEHC® R&O Hydraulic and Turbine Oils meet the following performance specifications:

- Cincinnati Milacron P-38(ISO 32), P-55(ISO 46), and P-57(ISO 68)
- General Electric GEK-32568
- Solar Turbines ES9-224
- DIN 51524, Part 1
- Denison HF-1
- Hägglunds-Denison HF-0 Bench Tests

Typical Properties:

Product: OEHC® R&O Hydraulic and Turbine Oils									
ISO Viscosity	22	32	46	68	100	150	220	320	460
Product Code	90283	1222	1223	1224	1225	1226	1227	1228	1229
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	4.3	5.5	6.8	8.7	12.2	15	19.4	23.4	30
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	22	31.7	44.7	67	100.5	150	228.2	307.5	440.1
Viscosity Index (ASTM D-2270)	101	112	110	101	113	100	97	95	101
Turbine Oxidation (ASTM D-943)	5000	5000	5000	5000	4000	2500	1500	1200	1100
RPVOT, min (ASTM D-2272)	700	700	700	600	400	300	300	300	300

Revision January 9, 2014

OEHC® INDUSTRIAL EP GEAR OILS

OEHC® Industrial EP Gear Oils have excellent oxidative and thermal stability allowing them to resist thickening produced by high temperatures. OEHC® Industrial EP Gear Oils are non-corrosive to gear and bearing materials such as steel, copper, bronze, Babbitt, and cadmium-nickel. These oils provide superior foam resistance and water separation, as well. The low pour points of the lower viscosity grades (ISO VG 68, 100, 150) make them suitable for gears and bearings exposed to winter weather.

OEHC® Industrial EP Gear Oils excel in the lubrication of heavily loaded enclosed gear drives and reducers on drives of all sizes. OEHC® Industrial EP Gear Oils lubricate a variety of gears including spur, bevel, herringbone, and worm designs. They are also suitable for industrial hypoid type gears where speed, temperature, and load are not excessive. OEHC® Industrial EP Gear Oils can be used with bath, splash, circulating, and spray-type lubrication systems.

OEHC® Industrial EP Gear Oils are ideal for applications such as steel mills where gear cases are often near red-hot steel; and, they are for use in circulating systems where water contamination is a hazard.

OEHC® Industrial EP Gear Oils are suitable for a wide variety of industrial and mobile equipment, gear systems, chain drives, sprockets, plain and anti-friction bearings, slide guides, flexible couplings, etc.

OEHC® Industrial EP Gear Oils are recommended for use in transmission gear cases and open pit and underground mining machinery.

OEHC® Industrial EP Gear Oils meet the performance requirements of extreme pressure lubricants of the American Gear Manufacturer's Association (AGMA) Specification 9005-D94. They also meet US Steel specification 224 requirements, and API Service GL-2.

OEHC® Industrial EP Gear Oils are not recommended for the lubrication of automotive hypoid gears, for which GL-5 Multi-Purpose Gear Oils are recommended.

Typical Properties:

Product: OEHC® Industrial EP Gear Oils								
Product Code	1434	1435	1436	1437	1438	1439	90350	90346
ISO Viscosity Grade	68	100	150	220	320	460	680	1000
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	66.3	95.0	148.6	217.7	302.1	461.1	714.6	1000
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	9.1	11.1	14.9	19.1	23.5	31.2	47.3	53
Viscosity Index (ASTM D-2270)	112	102	100	99	99	99	115	101
API Gravity (ASTM D-1298)	31.0	29.5	28.9	28.6	27.5	29.1	26.7	29.0
AGMA number EP	2	3	4	5	6	7	8	8A

Revision July 26, 2012

OEHC® SYNTHETIC INDUSTRIAL EP GEAR OILS

OEHC® Synthetic Industrial Gear Oils ISO 68 through 460 have excellent oxidation and thermal stability. Along with their oxidation and thermal stability, synthetic oils show a marked improvement in low temperature pumpability over conventional oils. OEHC® Synthetic EP Gear Oils are non-corrosive to gear and bearing materials such as steel, copper, bronze, Babbitt, and cadmium-nickel; these oils provide superior foam resistance and water separation. The low pour points of the lower viscosity grades make them suitable for gears and bearings exposed to winter weather.

OEHC® Synthetic Gear Oils excel in the lubrication of heavily loaded enclosed gear drives and reducers on drives of all sizes. OEHC® Synthetic Gear Oils lubricate a variety of gears including spur, bevel, herringbone, and worm designs. They are also suitable for industrial hypoid type gears where speed, temperature, and load are not excessive. OEHC® Synthetic Gear Oils can be used with bath, splash, circulating, and spray-type lubrication systems. OEHC® Synthetic Gear Oils are ideal for applications such as steel mills where gear cases are often near red-hot steel; and use in circulating systems where water contamination is a hazard. OEHC® Synthetic EP Gear Oils are suitable for a wide variety of industrial and mobile equipment, gear systems, chain drives, sprockets, plain and anti-friction bearings, slide guides, flexible couplings, etc. OEHC® Synthetic Gear Oils are recommended for use in transmission gear cases and worm drive axles on mobile contractor type equipment and open pit and underground mining machinery when a synthetic GL-2 type gear oil is recommended.

OEHC® Synthetic Gear Oils meet the performance requirements of extreme pressure lubricants of the American Gear Manufacturer's Association (AGMA) Specification 9005-D94. They also meet US Steel specification 224 requirements, and Joy TO-SMEP (ISO 220), TO-SHEP (ISO 320), TO-SHDEP (ISO 460).

OEHC® Synthetic Gear Oils are not recommended for the lubrication of automotive hypoid gears, for which GL-5 Multipurpose Gear Oils are recommended.

Typical Properties:

Product: OEHC® Synthetic Industrial EP Gear Oils						
Product Code	1454	1455	1456	1457	1458	1459
ISO Viscosity Grade	68	100	150	220	320	460
Kinematic Viscosity @40 °C, cSt (ASTM D-445)	65.8	100.3	150.8	223.0	319.6	464.5
Kinematic Viscosity @100 °C, cSt (ASTM D-445)	10.9	15.3	20.6	27.7	37.0	48.8
Viscosity Index (ASTM D-2270)	156	152	159	165	165	165

OEHC® CF-2 MARINE DIESEL MOTOR OILS

OEHC® CF-2 Marine Diesel Motor Oils are specifically formulated for use in Detroit Diesel series 92 Marine diesel engines. These engines require an oil meeting the API Service CF-2 classification with a maximum sulfated ash content of 1%, with a minimum TBN of 7.0. This product can also be used in stationary generating engines or other applications requiring a product with medium ash.

Typical Properties:

Product: OEHC® CF-2 Marine Diesel Motor Oils			
SAE Viscosity Grade		30	40
API Classification		CF-2	CF-2
Product Code		1163	1164
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)		11.6	14.0
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)		91.6	135.0
Viscosity Index (ASTM D-2270)		117	110
Total Base Number (ASTM D-2896)		7.3	7.3
API Gravity (ASTM D-1298)		28.3	28.7

Revision July 25, 2012

OEHC® SAE 50 MARINE CYLINDER LUBRICANT 70 TBN

OEHC® SAE 50 Marine Cylinder Lubricant 70 TBN is specifically formulated for use in low speed 2-stroke crosshead engines operated on high sulfur heavy fuel oil. This includes MAN Diesel & Turbo, Wartsila, and MHI 2T engines. This oil provides outstanding protection against scuffing and liner wear. OEHC® SAE 50 Marine Cylinder Lubricant 70 TBN is field proven in the latest generation 2- stroke marine engines.

Typical Properties:

Product: OEHC® SAE 50 Marine Cylinder Lubricant 70 TBN	
SAE Viscosity Grade	50
Product Code	90768
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	19.8
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	217.3
Viscosity Index (ASTM D-2270)	105
Total Base Number (ASTM D-2896)	70
API Gravity (ASTM D-1298)	22.0

Revision February 13, 2019

OEHC® SAE 30 MARINE SYSTEM OIL

OEHC® SAE 30 Marine System Oil is specifically formulated to lubricate bearings, gears, and guides as well as cool piston undercrowns in low-speed 2-stroke crosshead engines. This includes MAN B&W and Wartsila 2T engines. This oil is resistant to oxidation and thermal breakdown and protects engine parts from corrosion and wear under high loads. OEHC® SAE 30 Marine System Oil also contains advanced detergents that neutralize acids that may contaminate the main system due to cylinder oil leaking past piston rod glands.

Typical Properties:

Product: OEHC® SAE 30 Marine System Oil	
SAE Viscosity Grade	30
Product Code	90769
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	10.9
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	94.3
Viscosity Index (ASTM D-2270)	100
Total Base Number (ASTM D-2896)	7
API Gravity (ASTM D-1298)	29.5

Revision February 13, 2019

OEHC® JASO MA2 API SJ MOTORCYCLE OILS

OEHC® JASO MA2, API SJ motorcycle oils are specifically designed to meet the most current performance requirements of the JASO MA2 and API SJ service standards. OEHC® JASO MA2, API SJ motorcycle oils use a state of the art additive package that has been designed and tested to provide excellent wear protection, prevention from rust and oxidation, provide optimal clutch performance, and maintain proper frictional characteristics as required by the current JASO MA2 standard. These oils use high quality group II base oils with high shear stability viscosity modifiers and are available in SAE viscosities of 10W-40 and 20W-50.

Typical Properties:

Product: OEHC® JASO MA2 API SJ Motorcycle Oils		
Product Code	90557	90558
JASO, API Performance Level	MA2, SJ	MA2, SJ
SAE viscosity grade	10W-40	20W-50
Kinematic Viscosity @ 100 °C cSt (ASTM D-445)	13.2	18.8
Kinematic Viscosity @ 40 °C cSt (ASTM D-445)	87.0	169.7
Viscosity Index (ASTM D-2270)	153	124
Zinc, ppm	1100	1100
Calcium, ppm	1900	1900

Revision June 25, 2015