



**MOL-LUB Lubricant Production,
Distribution and Service Ltd.**
H-2931 Almásfüzitő, Fő út 21.
HUNGARY
www.mol.hu/en

E-mail: lubexportsupport@mol.hu

QUALITY CERTIFICATE

*Based on the report of the laboratory (accreditation number:
NAH-1-1416/2022). ISO 9001 Quality Assurance.*

Mat.Desc.:	MOL Dynamic Gold Longlife 5W-30 170KG		
Material:	13301868	Cust.Mat:	
Batch:	3124158107	Manufacture:	08.12.2023
Delivery:	72256224/10	Exp.Date:	06.12.2028
Sales Order:	401194736/10	Plate num.:	KLI77996
Insp. closure:	07.12.2023	Inspection lot:	040000069863

Property	Unit	Method	Min.	Typical	Max.	Result
Appearance at 20°C	-	MOL-LUB M 197:2020	-	bright, clear	-	Proper
Kinematic viscosity at 100 °C	mm ² /s	*MSZ EN ISO 3104:2021	11,0000	0,0000	12,2000	11.8300
Zinc content (ICP)	%(m)	ASTM D 4951-14:2019				0.0861
Apparent viscosity (CCS) at -30°C	mPa.s	*ASTM D 5293-20	-	0,0000	6600,0000	6359.0000
Pour point	°C	*MSZ EN ISO 3016:2019				-48.0000
Density at 15 °C	g/cm ³	*MSZ EN ISO 3675:2000				0.8516

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Manufacturer: MOL-LUB Ltd.

Printed: 01.02.2024

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HSE and quality management
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QUALITY CERTIFICATE

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Mat.Desc.:	MOL Dynamic Prima 5W-40 4L		
Material:	13301138	Cust.Mat:	
Batch:	3114154876	Manufacture:	07.11.2023
Delivery:	72256224/20	Exp.Date:	06.11.2028
Sales Order:	401194736/20	Plate num.:	KLI77996
Insp. closure:	08.11.2023	Inspection lot:	040000068213

Property	Unit	Method	Min.	Typical	Max.	Result
Appearance at 20°C	-	MOL-LUB M 197:2020	-	bright, clear	-	Proper
Kinematic viscosity at 100 °C	mm ² /s	*ASTM D 445-21e2	14,2000	0,0000	15,5000	14.4100
Calcium content	%(m)	ASTM D 4951-14:2019				0.1670
Density at 15°C	g/cm ³	*MSZ EN ISO 12185:1998	-	0,0000	-	0.8546

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Mat.Desc.:	MOL Dynamic Prima 5W-40 170KG		
Material:	13100099	Cust.Mat:	
Batch:	3124158541	Manufacture:	14.12.2023
Delivery:	72256224/30	Exp.Date:	13.12.2028
Sales Order:	401194736/30	Plate num.:	KLI77996
Insp. closure:	15.12.2023	Inspection lot:	040000070095

Property	Unit	Method	Min.	Typical	Max.	Result
Appearance at 20°C	-	MOL-LUB M 197:2020	-	bright, clear	-	Proper
Kinematic viscosity at 100 °C	mm ² /s	BAM-1201	14,2000	0,0000	15,5000	14.3300
Apparent viscosity (CCS) at -30°C	mPa.s	*ASTM D 5293-20	0,0000	0,0000	6600,0000	6284.0000
Calcium content (RFS)	%(m)	*ASTM D 6481-14:2019	0,1710	0,0000	0,2150	0.1940
Density at 15°C	g/cm ³	*MSZ EN ISO 12185:1998	-	0,0000	-	0.8538
Pour point	°C	*MSZ EN ISO 3016:2019	-	0,0000	-33,0000	-45.0000

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Mat.Desc.:	MOL Dynamic Gold 5W-30 4L		
Material:	13301107	Cust.Mat:	
Batch:	4014160175	Manufacture:	18.01.2024
Delivery:	72256224/40	Exp.Date:	16.01.2029
Sales Order:	401194736/40	Plate num.:	KLI77996
Insp. closure:	18.01.2024	Inspection lot:	040000071064

Property	Unit	Method	Min.	Typical	Max.	Result
Appearance at 20°C	-	MOL-LUB M 197:2020	-	bright, clear	-	Proper
Kinematic viscosity at 100 °C	mm ² /s	*ASTM D 445-21e2	11,1000	0,0000	12,1000	11.4900
Kinematic viscosity at 40 °C	mm ² /s	*MSZ EN ISO 3104:2021	-	0,0000	-	70.1500
Calcium content	%(m)	ASTM D 4951-14:2019				0.1880
Apparent viscosity (CCS) at -30°C	mPa.s	*ASTM D 5293-20	0,0000	0,0000	6600,0000	6502.0000
Density at 15°C	g/cm ³	*MSZ EN ISO 12185:1998	-	0,0000	-	0.8551
Viscosity index	-	*MSZ ISO 2909:1999	160,0000	0,0000	-	161.0000

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Mat.Desc.:	MOL Dynamic Star 5W-30 4L		
Material:	13301151	Cust.Mat:	
Batch:	3124158456	Manufacture:	15.12.2023
Delivery:	72256224/50	Exp.Date:	17.12.2028
Sales Order:	401194736/50	Plate num.:	KLI77996
Insp. closure:	19.12.2023	Inspection lot:	040000070249

Property	Unit	Method	Min.	Typical	Max.	Result
Appearance at 20°C	-	MOL-LUB M 197:2020	-	bright, clear	-	Proper
Kinematic viscosity at 100 °C	mm ² /s	*ASTM D 445-21e2	9,3000	0,0000	10,5000	10.4800
Phosphorus content (ICP)	%(m)	ASTM D 4951-14:2019	-	0,0000	0,1000	0.0871
Zinc content (ICP)	%(m)	ASTM D 4951-14:2019				0.0989
Density at 15°C	g/cm ³	*MSZ EN ISO 12185:1998	0,0000	0,0000	-	0.8517
Flashpoint (Cleveland)	°C	*MSZ EN ISO 2592:2018	200,0000	0,0000	-	228.0000

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Mat.Desc.:	MOL Dynamic Star PC 5W-30 170KG		
Material:	13300346	Cust.Mat:	
Batch:	3114156133	Manufacture:	13.11.2023
Delivery:	72256224/60	Exp.Date:	12.11.2028
Sales Order:	401194736/60	Plate num.:	KLI77996
Insp. closure:	14.11.2023	Inspection lot:	040000068544

Property	Unit	Method	Min.	Typical	Max.	Result
Appearance at 20°C	-	MOL-LUB M 197:2020	-	bright, clear	-	Proper
Kinematic viscosity at 100 °C	mm ² /s	*MSZ EN ISO 3104:2021	10,0000	0,0000	11,5000	10.5700
Kinematic viscosity at 40 °C	mm ² /s	*MSZ EN ISO 3104:2021	-	0,0000	-	62.3500
Zinc content (ICP)	%(m)	ASTM D 4951-14:2019				0.0829
Apparent viscosity (CCS) at -30°C	mPa.s	*ASTM D 5293-20	0,0000	0,0000	6600,0000	6113.0000
Density at 15°C	g/cm ³	*MSZ EN ISO 12185:1998	0,0000	0,0000	-	0.8519
Viscosity index	-	*MSZ ISO 2909:1999	155,0000	0,0000	-	158.0000

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Mat.Desc.:	MOL Dynamic Star VL 0W30 170KG				
Material:	13300875	Cust.Mat:			
Batch:	3054141588	Manufacture:	25.05.2023		
Delivery:	72256224/70	Exp.Date:	28.05.2028		
Sales Order:	401194736/70	Plate num.:	KLI77996		
Insp. closure:	25.05.2023	Inspection lot:	040000061014		

Property	Unit	Method	Min.	Typical	Max.	Result
Appearance at 20°C	-	MOL-LUB M 197:2020	-	bright, clear	-	Proper
Kinematic viscosity at 100 °C	mm ² /s	*ASTM D 445-21e2	9,3000	0,0000	10,2000	9.3480
Kinematic viscosity at 40 °C	mm ² /s	*ASTM D 445-21e2	0,0000	0,0000	-	49.2800
Density at 15 °C	g/cm ³	*ASTM D 1298-12b:2017	-	0,0000	-	0.8468
Viscosity index	-	*ASTM D 2270-10:2016	170,0000	0,0000	-	176.0000
Apparent viscosity (CCS) at -35 °C	mPa.s	*ASTM D 5293-20	-	0,0000	6200,0000	5570.0000
Zinc content (RFS)	%(m)	*ASTM D 6481-14:2019	0,0890	0,0000	0,1140	0.1020
Viscosity index	-	*ISO 2909:2002				177.0000
Pour point	°C	*MSZ EN ISO 3016:2019				-48.0000
Base number (BN)	mg KOH/g	*ISO 3771:2011	8,0000	0,0000	-	10.5900
Flashpoint (Cleveland)	°C	DIN ISO 2592:1981	200,0000	0,0000	-	224.0000

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Mat.Desc.:	MOL Dynamic Star VL 0W-30 4L				
Material:	13302699	Cust.Mat:			
Batch:	3054141587	Manufacture:	25.05.2023		
Delivery:	72256224/80	Exp.Date:	30.05.2028		
Sales Order:	401194736/80	Plate num.:	KLI77996		
Insp. closure:	01.06.2023	Inspection lot:	040000061124		

Property	Unit	Method	Min.	Typical	Max.	Result
Appearance at 20°C	-	MOL-LUB M 197:2020	-	bright, clear	-	Proper
Kinematic viscosity at 100 °C	mm ² /s	*ASTM D 445-21e2	9,3000	0,0000	10,2000	9.3960
Kinematic viscosity at 40 °C	mm ² /s	*ASTM D 445-21e2	0,0000	0,0000	-	49.2800
Density at 15 °C	g/cm ³	*ASTM D 1298-12b:2017	-	0,0000	-	0.8468
Viscosity index	-	*ASTM D 2270-10:2016	170,0000	0,0000	-	176.0000
Apparent viscosity (CCS) at -35 °C	mPa.s	*ASTM D 5293-20	-	0,0000	6200,0000	5570.0000
Zinc content (RFS)	%(m)	*ASTM D 6481-14:2019	0,0890	0,0000	0,1140	0.1020
Viscosity index	-	*ISO 2909:2002				177.0000
Pour point	°C	*MSZ EN ISO 3016:2019				-48.0000
Base number (BN)	mg KOH/g	*ISO 3771:2011	8,0000	0,0000	-	10.5900
Flashpoint (Cleveland)	°C	DIN ISO 2592:1981	200,0000	0,0000	-	224.0000

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Mat.Desc.:	MOL Dynamic Star 0W-30 1L		
Material:	13301148	Cust.Mat:	
Batch:	3024132822	Manufacture:	23.02.2023
Delivery:	72256224/100	Exp.Date:	26.02.2028
Sales Order:	401194736/100	Plate num.:	KLI77996
Insp. closure:	27.02.2023	Inspection lot:	040000056247

Property	Unit	Method	Min.	Typical	Max.	Result
Kinematic viscosity at 100 °C	mm ² /s	*ASTM D 445-21e1	9,3000	0,0000	9,9000	9.7430
Calcium content	%(m)	ASTM D 4927-05	0,1700	0,0000	0,2100	0.1920
Apparent viscosity (CCS) at -35 °C	mPa.s	*ASTM D 5293-20	-	0,0000	6200,0000	5541.0000
Density at 15°C	g/cm ³	ISO 12185				0.8459

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Mat.Desc.:	MOL Dynamic Star PC 0W-30 1L		
Material:	13301156	Cust.Mat:	
Batch:	3084147664	Manufacture:	01.08.2023
Delivery:	72256224/120	Exp.Date:	02.08.2028
Sales Order:	401194736/120	Plate num.:	KLI77996
Insp. closure:	04.08.2023	Inspection lot:	040000064262

Property	Unit	Method	Min.	Typical	Max.	Result
Appearance at 20°C	-	MOL-LUB M 197:2020	-	brown, bright, clear	-	Proper
Kinematic viscosity at 100 °C	mm ² /s	*ASTM D 445-21e2	9,5000	0,0000	11,0000	9.7160
Zinc content (RFS)	%(m)	*ASTM D 6481-14:2019				0.0850
Density at 15°C	g/cm ³	*MSZ EN ISO 12185:1998	-	0,0000	-	0.8436

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Mat.Desc.:	MOL Dynamic Star VL 0W-20 4L		
Material:	13302851	Cust.Mat:	
Batch:	3114154878	Manufacture:	02.11.2023
Delivery:	72256224/130	Exp.Date:	04.11.2028
Sales Order:	401194736/130	Plate num.:	KLI77996
Insp. closure:	06.11.2023	Inspection lot:	040000068171

Property	Unit	Method	Min.	Typical	Max.	Result
Appearance at 20°C	-	MOL-LUB M 197:2020	0	0	0	Proper
Pour point	°C	*ASTM D 97-17 (reapproved 2022)	-	-42,0000	-42,0000	-42.0000
Kinematic viscosity at 100 °C	mm ² /s	*MSZ EN ISO 3104:2021	8,5000	0,0000	9,3000	9.1680
Density at 15 °C	g/cm ³	*ASTM D 1298-12b:2017	0,0000	0,0000	-	0.8456
Viscosity index	-	*ASTM D 2270-10:2016	165,0000	167,0000	-	167.0000
Calcium content	%(m)	ASTM D 4951-14:2019				0.1760
Apparent viscosity (CCS) at -35 °C	mPa.s	*ASTM D 5293-20	0,0000	0,0000	6200,0000	5635.0000

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Mat.Desc.:	MOL Dynamic Star PC 5W-30 47KG		
Material:	13100105	Cust.Mat:	
Batch:	4014160511	Manufacture:	16.01.2024
Delivery:	72256224/160	Exp.Date:	14.01.2029
Sales Order:	401194736/160	Plate num.:	KLI77996
Insp. closure:	15.01.2024	Inspection lot:	040000070871

Property	Unit	Method	Min.	Typical	Max.	Result
Appearance at 20°C	-	MOL-LUB M 197:2020	-	bright, clear	-	Proper
Kinematic viscosity at 100 °C	mm ² /s	*MSZ EN ISO 3104:2021	10,0000	0,0000	11,5000	10.5700
Kinematic viscosity at 40 °C	mm ² /s	*MSZ EN ISO 3104:2021	-	0,0000	-	62.3500
Zinc content (ICP)	%(m)	ASTM D 4951-14:2019				0.0829
Apparent viscosity (CCS) at -30°C	mPa.s	*ASTM D 5293-20	0,0000	0,0000	6600,0000	6113.0000
Density at 15°C	g/cm ³	*MSZ EN ISO 12185:1998	0,0000	0,0000	-	0.8519
Viscosity index	-	*MSZ ISO 2909:1999	155,0000	0,0000	-	158.0000

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QUALITY CERTIFICATE

*Based on the report of the laboratory (accreditation number:
NAH-1-1416/2022). ISO 9001 Quality Assurance.*

Mat.Desc.:	MOL Hykomol Synt 75W-90 1L		
Material:	13301350	Cust.Mat:	
Batch:	3104152241	Manufacture:	03.10.2023
Delivery:	72256224/170	Exp.Date:	03.10.2028
Sales Order:	401194736/170	Plate num.:	KLI77996
Insp. closure:	05.10.2023	Inspection lot:	040000066750

Property	Unit	Method	Min.	Typical	Max.	Result
Appearance at 20°C	-	MOL-LUB M 197:2020	-	bright, clear	-	Proper
Kinematic viscosity at 100 °C	mm ² /s	*MSZ EN ISO 3104:2021	14,5000	15,5000	16,5000	15.2000
Foaming characteristics SI-tendency	cm ³	*ASTM D 892-18	-	0,0000	20,0000	0.0000
Foaming characteristics SI-stability	cm ³	*ASTM D 892-18	-	0,0000	0,0000	0.0000
Foaming characteristics SII-tendency	cm ³	*ASTM D 892-18	-	0,0000	50,0000	10.0000
Foaming characteristics SII-stability	cm ³	*ASTM D 892-18	-	0,0000	0,0000	0.0000
Phosphorus content (RFS)	%(m)	*ASTM D 6481-14:2019	0,0270	0,0310	0,0350	0.0310
Density at 15°C	g/cm ³	*MSZ EN ISO 12185:1998	0,0000	0,0000	-	0.8743
Viscosity index	-	*MSZ ISO 2909:1999	140,0000	148,0000	-	148.0000
Pour point	°C	*MSZ EN ISO 3016:2019	-	0,0000	-42,0000	-48.0000

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Manufacturer: MOL-LUB Ltd.

Printed: 01.02.2024

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Mat.Desc.:	MOL Hykomol Synt 75W-90 1L		
Material:	13301350	Cust.Mat:	
Batch:	3104152241	Manufacture:	03.10.2023
Delivery:	72256224/170	Exp.Date:	03.10.2028
Sales Order:	401194736/170	Plate num.:	KLI77996
Insp. closure:	05.10.2023	Inspection lot:	040000066750

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Mat.Desc.:	MOL ATF 1L		
Material:	13301059	Cust.Mat:	
Batch:	4014160099	Manufacture:	11.01.2024
Delivery:	72256224/180	Exp.Date:	09.01.2029
Sales Order:	401194736/180	Plate num.:	KLI77996
Insp. closure:	11.01.2024	Inspection lot:	040000070661

Property	Unit	Method	Min.	Typical	Max.	Result
Appearance at 20°C	-	MOL-LUB M 197:2020	-	red, bright, clear	-	Proper
Kinematic viscosity at 100 °C	mm ² /s	*MSZ EN ISO 3104:2021	7,5000	7,9000	8,3000	8.0570
Kinematic viscosity at 40 °C	mm ² /s	*MSZ EN ISO 3104:2021	-	0,0000	-	41.5000
Phosphorus content (RFS)	%(m)	*ASTM D 6481-14:2019	0,0239	0,0290	0,0347	0.0260
Density at 15°C	g/cm ³	*MSZ EN ISO 12185:1998	0,0000	0,0000	-	0.8607
Viscosity index	-	*MSZ ISO 2909:1999	150,0000	152,0000	-	168.0000

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Mat.Desc.:	MOL ATF 3H AP 1L		
Material:	13301063	Cust.Mat:	
Batch:	3014130892	Manufacture:	17.01.2023
Delivery:	72256224/190	Exp.Date:	17.01.2028
Sales Order:	401194736/190	Plate num.:	KLI77996
Insp. closure:	18.01.2023	Inspection lot:	040000054553

Property	Unit	Method	Min.	Typical	Max.	Result
Appearance at 20°C	-	MOL-LUB M 197:2020	-	red, bright, clear	-	Proper
Kinematic viscosity at 100 °C	mm ² /s	*MSZ EN ISO 3104:2021	7,0000	7,4000	7,8000	7.4360
Kinematic viscosity at 40 °C	mm ² /s	*MSZ EN ISO 3104:2021	0,0000	0,0000	-	38.2200
Phosphorus content (RFS)	%(m)	*ASTM D 6481-14:2019	0,0260	0,0320	0,0370	0.0292
Density at 15°C	g/cm ³	*MSZ EN ISO 12185:1998	0,0000	0,0000	-	0.8523
Viscosity index	-	*MSZ ISO 2909:1999	160,0000	50079,5000	-	162.0000
Pour point	°C	*MSZ EN ISO 3016:2019	-	-70,5000	-42,0000	-51.0000

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Mat.Desc.:	MOL Hykomol Synt 75W-90 10LA				
Material:	13300376	Cust.Mat:			
Batch:	3124158465	Manufacture:	14.12.2023		
Delivery:	72256224/200	Exp.Date:	16.12.2028		
Sales Order:	401194736/200	Plate num.:	KLI77996		
Insp. closure:	18.12.2023	Inspection lot:	040000070193		

Property	Unit	Method	Min.	Typical	Max.	Result
Appearance at 20°C	-	MOL-LUB M 197:2020	-	bright, clear	-	Proper
Kinematic viscosity at 100 °C	mm ² /s	*MSZ EN ISO 3104:2021	14,5000	15,5000	16,5000	15.0400
Foaming characteristics SI-tendency	cm ³	*ASTM D 892-23	-	0,0000	20,0000	0.0000
Foaming characteristics SI-stability	cm ³	*ASTM D 892-23	-	0,0000	0,0000	0.0000
Foaming characteristics SII-tendency	cm ³	*ASTM D 892-23	-	0,0000	50,0000	0.0000
Foaming characteristics SII-stability	cm ³	*ASTM D 892-23	-	0,0000	0,0000	0.0000
Phosphorus content (RFS)	%(m)	*ASTM D 6481-14:2019	0,0270	0,0310	0,0350	0.0292
Density at 15°C	g/cm ³	*MSZ EN ISO 12185:1998	0,0000	0,0000	-	0.8738
Viscosity index	-	*MSZ ISO 2909:1999	140,0000	148,0000	-	148.0000
Pour point	°C	*MSZ EN ISO 3016:2019	-	0,0000	-42,0000	-51.0000
Flashpoint (Cleveland)	°C	*MSZ EN ISO 2592:2018	200,0000	240,0000	-	224.0000

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Mat.Desc.:	MOL Hykomol Synt 75W-90 10LA		
Material:	13300376	Cust.Mat:	
Batch:	3124158465	Manufacture:	14.12.2023
Delivery:	72256224/200	Exp.Date:	16.12.2028
Sales Order:	401194736/200	Plate num.:	KLI77996
Insp. closure:	18.12.2023	Inspection lot:	040000070193

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Mat.Desc.:	MOL ATF Synt TWS 1L		
Material:	13302859	Cust.Mat:	
Batch:	3114155873	Manufacture:	13.11.2023
Delivery:	72256224/210	Exp.Date:	13.11.2028
Sales Order:	401194736/210	Plate num.:	KLI77996
Insp. closure:	14.11.2023	Inspection lot:	040000068713

Property	Unit	Method	Min.	Typical	Max.	Result
Appearance at 20°C	-	MOL-LUB M 197:2020	0	0	0	Proper
Kinematic viscosity at 100 °C	mm ² /s	*MSZ EN ISO 3104:2021	5,4000	5,8000	6,2000	6.0900
Apparent viscosity (CCS) at -30°C	mPa.s	*ASTM D 5293-20	-	1550,5000	3200,0000	2890.0000
Calcium content (RFS)	%(m)	*ASTM D 6481-14:2019				0.0143
Density at 15°C	g/cm ³	*MSZ EN ISO 12185:1998	0,0000	0,0000	-	0.8481

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Mat.Desc.:	MOL CVT Fluid 1L		
Material:	13301079	Cust.Mat:	
Batch:	3094149783	Manufacture:	11.09.2023
Delivery:	72256224/220	Exp.Date:	12.09.2028
Sales Order:	401194736/220	Plate num.:	KLI77996
Insp. closure:	13.09.2023	Inspection lot:	040000065326

Property	Unit	Method	Min.	Typical	Max.	Result
Appearance at 20°C	-	MOL-LUB M 197:2020	-	brown, bright, clear	-	Proper
Kinematic viscosity at 100 °C	mm ² /s	*ASTM D 445-21e2	6,9000	7,1500	7,4000	6.9650
Calcium content	%(m)	ASTM D 4951-14:2019				0.0400
Density at 15°C	g/cm ³	*MSZ EN ISO 12185:1998	0,0000	0,8500	-	0.8518
Pour point	°C	*MSZ EN ISO 3016:2019	-	-45,0000	-42,0000	-51.0000

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Mat.Desc.:	MOL Dynamic Gold Longlife 5W-30 47KG				
Material:	13301870	Cust.Mat:			
Batch:	4014160430	Manufacture:	23.01.2024		
Delivery:	72256224/900001	Exp.Date:	21.01.2029		
Sales Order:	401194736/140	Plate num.:	KLI77996		
Insp. closure:	22.01.2024	Inspection lot:	040000071139		

Property	Unit	Method	Min.	Typical	Max.	Result
Appearance at 20°C	-	MOL-LUB M 197:2020	-	bright, clear	-	Proper
Kinematic viscosity at 100 °C	mm ² /s	*ASTM D 445-21e2	11,0000	0,0000	12,2000	11.7900
Zinc content (ICP)	%(m)	ASTM D 4951-14:2019				0.0830
Density at 15 °C	g/cm ³	*MSZ EN ISO 3675:2000				0.8516

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Mat.Desc.:	MOL Dynamic Gold Longlife 5W-30 47KG		
Material:	13301870	Cust.Mat:	
Batch:	3124158108	Manufacture:	08.12.2023
Delivery:	72256224/900002	Exp.Date:	06.12.2028
Sales Order:	401194736/140	Plate num.:	KLI77996
Insp. closure:	07.12.2023	Inspection lot:	040000069862

Property	Unit	Method	Min.	Typical	Max.	Result
Appearance at 20°C	-	MOL-LUB M 197:2020	-	bright, clear	-	Proper
Kinematic viscosity at 100 °C	mm ² /s	*MSZ EN ISO 3104:2021	11,0000	0,0000	12,2000	11.8300
Zinc content (ICP)	%(m)	ASTM D 4951-14:2019				0.0861
Apparent viscosity (CCS) at -30°C	mPa.s	*ASTM D 5293-20	-	0,0000	6600,0000	6359.0000
Pour point	°C	*MSZ EN ISO 3016:2019				-48.0000
Density at 15 °C	g/cm ³	*MSZ EN ISO 3675:2000				0.8516

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Mat.Desc.:	MOL Dynamic Gold Longlife 5W-30 47KG		
Material:	13301870	Cust.Mat:	
Batch:	3124158108	Manufacture:	08.12.2023
Delivery:	72256224/900003	Exp.Date:	06.12.2028
Sales Order:	401194736/140	Plate num.:	KLI77996
Insp. closure:	07.12.2023	Inspection lot:	040000069862

Property	Unit	Method	Min.	Typical	Max.	Result
Appearance at 20°C	-	MOL-LUB M 197:2020	-	bright, clear	-	Proper
Kinematic viscosity at 100 °C	mm ² /s	*MSZ EN ISO 3104:2021	11,0000	0,0000	12,2000	11.8300
Zinc content (ICP)	%(m)	ASTM D 4951-14:2019				0.0861
Apparent viscosity (CCS) at -30°C	mPa.s	*ASTM D 5293-20	-	0,0000	6600,0000	6359.0000
Pour point	°C	*MSZ EN ISO 3016:2019				-48.0000
Density at 15 °C	g/cm ³	*MSZ EN ISO 3675:2000				0.8516

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Mat.Desc.:	MOL Dynamic Gold Longlife 5W-30 47KG				
Material:	13301870	Cust.Mat:			
Batch:	4014160430	Manufacture:	23.01.2024		
Delivery:	72256224/900004	Exp.Date:	21.01.2029		
Sales Order:	401194736/140	Plate num.:	KLI77996		
Insp. closure:	22.01.2024	Inspection lot:	040000071139		

Property	Unit	Method	Min.	Typical	Max.	Result
Appearance at 20°C	-	MOL-LUB M 197:2020	-	bright, clear	-	Proper
Kinematic viscosity at 100 °C	mm ² /s	*ASTM D 445-21e2	11,0000	0,0000	12,2000	11.7900
Zinc content (ICP)	%(m)	ASTM D 4951-14:2019				0.0830
Density at 15 °C	g/cm ³	*MSZ EN ISO 3675:2000				0.8516

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Mat.Desc.:	MOL Dynamic Gold Longlife 5W-30 4L		
Material:	13301115	Cust.Mat:	
Batch:	3124158106	Manufacture:	07.12.2023
Delivery:	72256224/900005	Exp.Date:	05.12.2028
Sales Order:	401194736/240	Plate num.:	KLI77996
Insp. closure:	07.12.2023	Inspection lot:	040000069822

Property	Unit	Method	Min.	Typical	Max.	Result
Appearance at 20°C	-	MOL-LUB M 197:2020	-	bright, clear	-	Proper
Kinematic viscosity at 100 °C	mm ² /s	*MSZ EN ISO 3104:2021	11,0000	0,0000	12,2000	11.8100

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Mat.Desc.:	MOL Dynamic Gold Longlife 0W-20 4L		
Material:	13303108	Cust.Mat:	
Batch:	3084147657	Manufacture:	28.07.2023
Delivery:	72256224/900006	Exp.Date:	30.07.2028
Sales Order:	401194736/150	Plate num.:	KLI77996
Insp. closure:	01.08.2023	Inspection lot:	040000064077

Property	Unit	Method	Min.	Typical	Max.	Result
Appearance at 20°C	-	MOL-LUB M 197:2020	0	0	0	Proper
Kinematic viscosity at 100 °C	mm ² /s	*MSZ EN ISO 3104:2021	7,0000	8,5500	9,0000	8.3850
Apparent viscosity (CCS) at -35 °C	mPa.s	*ASTM D 5293-20	0,0000	3050,5000	6200,0000	5354.0000
Density at 15°C	g/cm ³	ISO 12185				0.8439

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*Based on the report of the laboratory (accreditation number:
NAH-1-1416/2022). ISO 9001 Quality Assurance.*

Mat.Desc.:	MOL Dynamic Gold Longlife 5W-30 4L		
Material:	13301115	Cust.Mat:	
Batch:	3124158106	Manufacture:	07.12.2023
Delivery:	72256224/900007	Exp.Date:	05.12.2028
Sales Order:	401194736/240	Plate num.:	KLI77996
Insp. closure:	07.12.2023	Inspection lot:	040000069822

Property	Unit	Method	Min.	Typical	Max.	Result
Appearance at 20°C	-	MOL-LUB M 197:2020	-	bright, clear	-	Proper
Kinematic viscosity at 100 °C	mm ² /s	*MSZ EN ISO 3104:2021	11,0000	0,0000	12,2000	11.8100

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Denotes test conducted by collaborative / subcontracted laboratories

Manufacturer: MOL-LUB Ltd.

Printed: 01.02.2024

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QUALITY CERTIFICATE

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Mat.Desc.:	MOL Dynamic Gold Longlife 0W-20 4L		
Material:	13303108	Cust.Mat:	
Batch:	3084147657	Manufacture:	28.07.2023
Delivery:	72256224/900008	Exp.Date:	30.07.2028
Sales Order:	401194736/150	Plate num.:	KLI77996
Insp. closure:	01.08.2023	Inspection lot:	040000064077

Property	Unit	Method	Min.	Typical	Max.	Result
Appearance at 20°C	-	MOL-LUB M 197:2020	0	0	0	Proper
Kinematic viscosity at 100 °C	mm ² /s	*MSZ EN ISO 3104:2021	7,0000	8,5500	9,0000	8.3850
Apparent viscosity (CCS) at -35 °C	mPa.s	*ASTM D 5293-20	0,0000	3050,5000	6200,0000	5354.0000
Density at 15°C	g/cm ³	ISO 12185				0.8439

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QUALITY CERTIFICATE

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Mat.Desc.:	MOL Dynamic Star F 0W-30 1L		
Material:	13301152	Cust.Mat:	
Batch:	3024132820	Manufacture:	31.01.2023
Delivery:	72256224/900009	Exp.Date:	02.02.2028
Sales Order:	401194736/110	Plate num.:	KLI77996
Insp. closure:	02.02.2023	Inspection lot:	040000055370

Property	Unit	Method	Min.	Typical	Max.	Result
Appearance at 20°C	-	MOL-LUB M 197:2020	-	bright, clear	-	Proper
Kinematic viscosity at 100 °C	mm ² /s	*ASTM D 445-21e2	9,6000	10,0000	10,4000	10.1800
Kinematic viscosity at 40 °C	mm ² /s	*ASTM D 445-21e2				55.0700
Apparent viscosity (CCS) at -35 °C	mPa.s	*ASTM D 5293-20	0,0000	3500,0000	6200,0000	5817.0000
Calcium content (RFS)	%(m)	*ASTM D 6481-14:2019	0,1700	0,1850	0,2000	0.1960
Density at 15°C	g/cm ³	*MSZ EN ISO 12185:1998				0.8455
Viscosity index	-	*ISO 2909:2002	170,0000	0,0000	500,0000	173.0000

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Mat.Desc.:	MOL Dynamic Star F 0W-30 1L				
Material:	13301152	Cust.Mat:			
Batch:	3094151830	Manufacture:	04.05.2023		
Delivery:	72256224/900010	Exp.Date:	24.09.2028		
Sales Order:	401194736/110	Plate num.:	KLI77996		
Insp. closure:	26.09.2023	Inspection lot:	040000066134		

Property	Unit	Method	Min.	Typical	Max.	Result
Appearance at 20°C	-	MOL-LUB M 197:2020	-	bright, clear	-	Proper
Kinematic viscosity at 100 °C	mm ² /s	*MSZ EN ISO 3104:2021	9,6000	10,0000	10,4000	10.1300
Apparent viscosity (CCS) at -35 °C	mPa.s	*ASTM D 5293-20	0,0000	3500,0000	6200,0000	5883.0000
Calcium content (RFS)	%(m)	*ASTM D 6481-14:2019	0,1700	0,1850	0,2000	0.1890
Density at 15°C	g/cm ³	*MSZ EN ISO 12185:1998				0.8443

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Mat.Desc.:	MOL Dynamic Gold Longlife 5W-30 20LC		
Material:	13302990	Cust.Mat:	
Batch:	4014161062	Manufacture:	08.12.2023
Delivery:	72256224/900011	Exp.Date:	06.12.2028
Sales Order:	401194736/90	Plate num.:	KLI77996
Insp. closure:	30.01.2024	Inspection lot:	040000071471

Property	Unit	Method	Min.	Typical	Max.	Result
Appearance at 20°C	-	MOL-LUB M 197:2020	0	0	0	Proper
Kinematic viscosity at 100 °C	mm ² /s	*MSZ EN ISO 3104:2021	11,0000	0,0000	12,2000	11.8300
Zinc content (ICP)	%(m)	ASTM D 4951-14:2019				0.0861
Apparent viscosity (CCS) at -30°C	mPa.s	*ASTM D 5293-20	-	0,0000	6600,0000	6359.0000
Pour point	°C	*MSZ EN ISO 3016:2019	-	0,0000	-36,0000	-48.0000
Density at 15 °C	g/cm ³	*MSZ EN ISO 3675:2000	0	0	0	0.8516

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QUALITY CERTIFICATE

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Mat.Desc.:	MOL Dynamic Gold Longlife 5W-30 20LC		
Material:	13302990	Cust.Mat:	
Batch:	3084149206	Manufacture:	21.06.2023
Delivery:	72256224/900012	Exp.Date:	26.08.2028
Sales Order:	401194736/90	Plate num.:	KLI77996
Insp. closure:	28.08.2023	Inspection lot:	040000064696

Property	Unit	Method	Min.	Typical	Max.	Result
Kinematic viscosity at 100 °C	mm ² /s	*MSZ EN ISO 3104:2021	11,0000	0,0000	12,2000	11.6700
Kinematic viscosity at 40 °C	mm ² /s	*MSZ EN ISO 3104:2021	-	0,0000	-	68.2900
Sulphated ash	%(m)	*ASTM D 874-13a:2018	-	0,8000	-	0.8500
Foaming characteristics SII-tendency	cm ³	*ASTM D 892-18				10.0000
Foaming characteristics SII-stability	cm ³	*ASTM D 892-18				0.0000
Density at 15 °C	g/cm ³	ASTM D 1122-97a:2002				0.8520
Viscosity index	-	*ASTM D 2270-10:2016				167.0000
Apparent viscosity (CCS) at -30°C	mPa.s	*ASTM D 5293-20	-	0,0000	6600,0000	6115.0000
Zinc content (RFS)	%(m)	*ASTM D 6481-14:2019	0,0810	0,0000	0,0940	0.0910
Noack volatility	%(m)	CEC L-40-A-95				8.5000
Pour point	°C	*MSZ EN ISO 3016:2019	-	0,0000	-36,0000	-45.0000
Base number (BN)	mg KOH/g	*ISO 3771:2011	6,0000	0,0000	-	9.2500
Flashpoint (Cleveland)	°C	*MSZ EN ISO 2592:2018	200,0000	0,0000	-	238.0000

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Batch:	3084149206	Manufacture:	21.06.2023
Delivery:	72256224/900012	Exp.Date:	26.08.2028
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