

Laboratory Report

QS-2004370
Labor-ID: QS-2004370



Item

Shell HELIX HX7 10W-40

Recipient: ATO24 AutoTeileOnline GmbH
Ziegelstr. 3
33824 Werther

ATO 24
Im Auftrag der [ATO24 AutoTeileOnline GmbH](https://www.ato24.de)

Your Reference:

AUF Number:

Lot Number: MUSTER

Test Date: 25.03.2020

Delivery Date:

Origin sample

Description	Dimension	Determined Value	Upper Limit	Lower Limit	Method
Appearance		YELLOWBROWN			visually
*Color (ASTM)		3,0			DIN ISO 2049
*Infrared Spectrum		ok			DIN 51451
*Density at 15°C	kg/m³	864,7			DIN EN ISO 12185
*Kinematic Viscosity at 40°C	mm²/s	95,73			DIN 51562-1
*Kinematic Viscosity at 100°C	mm²/s	14,49			DIN 51562-1
*Viscosity Index		157			DIN ISO 2909
*Viscosity CCS at -25°C	mPa*s	5970			ASTM D 5293
*Total Acid Number (TAN)	mgKOH/g	2,17			ASTM D 2896
*Viscosity HTHS at 150°C	mPa*s	4,15			ASTM D 5481
*Evaporation Loss (NOACK)	%	11,0			ASTM D 5800
*Flash Point (COC)	°C	234			DIN EN ISO 2592
*Pour Point	°C	-39			ASTM D 7346
*Total Base Number (TBN)	mgKOH/g	11,7			ASTM D 2896
Sulfat Ash	%	1,23			DIN 51575
RFA Magnesium	mg/kg	1390			a. ASTM D 4927
*RFA Phosphorus	mg/kg	844			ASTM D 4927
*RFA Sulfur	%	0,24			ASTM D 4927
*RFA Calcium	mg/kg	1195			ASTM D 4927
*RFA Zinc	mg/kg	865			ASTM D 4927
RFA Molybdenum	mg/kg	18,7			a. ASTM D 4927
RFA Wolfram	mg/kg	<10,0			a. ASTM D 4927

*Laboratory accredited to DIN EN ISO/IEC 17025:2005.

This laboratory report can be used as overview only and the values presented in it might variate in the final product delivery.

The value that are presented in laboratory report can be used for analyzed product sample only.

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Your Reference:
AUF Number:
Lot Number: MUSTER
Test Date: 25.03.2020
Delivery Date:
Origin: sample

Date: 26.03.2020

Stephan Haese
stellv. Leiter Labor/Senior Technician