

# LAB REPORT



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Unit ID **Óleo novo X320**  
Component **Fresh oil**  
Current sample number **2972720**

page 1 of 1

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Rewitec GmbH  
Labor  
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Oil brand name: **Castrol Optigear Synthetic X 320**

**Diagnosis for the current laboratory values**  
**This is a fresh oil sample - Este é uma amostra de óleo novo!**  
Dipl.-Ing. Andy Böhme (CLS)

**Sample Rating**



**unrated**

ANALYSIS RESULTS			Current sample	Previous samples	
<b>LAB NUMBER</b>			<b>2972720</b>		
<b>SAMPLE RATING</b>					
Date tested			<b>11.05.2016</b>		
Date of sample taken			-		
Date of last oil change			-		
Top-up since change			-		
Operating time since change			-		
Total operating time			-		
Oil changed			-		
<b>WEAR</b>					
Iron	Fe	mg/kg	<b>0</b>		
Chrome	Cr	mg/kg	<b>0</b>		
Tin	Sn	mg/kg	<b>0</b>		
Aluminum	Al	mg/kg	<b>0</b>		
Nickel	Ni	mg/kg	<b>0</b>		
Copper	Cu	mg/kg	<b>0</b>		
Lead	Pb	mg/kg	<b>0</b>		
Manganese	Mn	mg/kg	<b>0</b>		
PQ index	-		<b>&lt; 25</b>		
<b>CONTAMINATION</b>					
Silicon	Si	mg/kg	<b>17</b>		
Potassium	K	mg/kg	<b>0</b>		
Sodium	Na	mg/kg	<b>0</b>		
Water	%		<b>&lt; 0.10</b>		
<b>OIL CONDITION</b>					
Viscosity at 40°C	mm <sup>2</sup> /s		<b>323.15</b>		
Viscosity at 100°C	mm <sup>2</sup> /s		<b>34.18</b>		
Viscosity index	-		<b>149</b>		
Oxidation	A/cm		<b>-</b>		
<b>ADDITIVES</b>					
Calcium	Ca	mg/kg	<b>1895</b>		
Magnesium	Mg	mg/kg	<b>5</b>		
Boron	B	mg/kg	<b>0</b>		
Zinc	Zn	mg/kg	<b>1</b>		
Phosphorus	P	mg/kg	<b>367</b>		
Barium	Ba	mg/kg	<b>0</b>		
Molybdenum	Mo	mg/kg	<b>1094</b>		
Sulphur	S	mg/kg	<b>1869</b>		

**Bottle and Cap**



**Infrared Spectrum**

