

# LAB REPORT

Unit ID **Cylindrical roller bearing**  
 Component **Grease lubrication**  
 Current sample number **1700915**



OELCHECK GmbH · Kerschelweg 28 · 83098 Brannenburg

Example report  
 Analysis scope: Analysis-Kit 5

Machine type: **FK-15**  
 Manufacturer: **ABC**  
 Grease type: **BP Energrease LS-EP 2**  
 Grease quantity in the bearing: **200 g**

### Diagnosis for the current laboratory values

Iron slightly increased by wear or corrosion. A slightly increased amount of magnetic ferrous particles ( $>5 \mu$ ) is detected from the increased PQ index. The water content is within the normal range. The additive elements and quantity differ from the fresh grease analysis stored in our database. Das Fett ist weicher als für die angegebene NLGI-Klasse erwartet. I recommend that you regrease the bearing at shorter intervals or with an increased grease quantity. Please send us the next sample after 6 months for trend analysis.

This diagnosis contains individual comments which cannot be translated using machine translation. Please consult your local partner or a translation company to have the text translated. Important information may be lost if the diagnosis is not translated in full.

Dipl.-Ing. Stefan Mitterer

### Sample Rating



### Caution

ANALYSIS RESULTS			Current sample	Previous samples	
<b>LAB NUMBER</b>			<b>1700915</b>		
<b>SAMPLE RATING</b>					
Date tested			<b>01.08.2018</b>		
Date of sample taken			<b>09.06.2018</b>		
Date of last relubrication			<b>10.05.2015</b>		
Relubrication Quantity	g		<b>50</b>		
Relubrication Interval	M		<b>3</b>		
Total operating time	a		<b>3</b>		
Relubrication			<b>yes</b>		
<b>WEAR</b>					
Iron	Fe	mg/kg	<b>319</b>		
Chrome	Cr	mg/kg	<b>3</b>		
Tin	Sn	mg/kg	<b>12</b>		
Aluminum	Al	mg/kg	<b>11</b>		
Nickel	Ni	mg/kg	<b>2</b>		
Copper	Cu	mg/kg	<b>89</b>		
Lead	Pb	mg/kg	<b>21</b>		
PQ index	-		<b>188</b>		
<b>CONTAMINATION</b>					
Silicon	Si	mg/kg	<b>32</b>		
Potassium	K	mg/kg	<b>326</b>		
Sodium	Na	mg/kg	<b>54</b>		
Water K. F.	ppm		<b>236</b>		
<b>BASE OIL CONDITION</b>					
IR index	-		<b>90.89</b>		
<b>ADDITIVES</b>					
Calcium	Ca	mg/kg	<b>2922</b>		
Magnesium	Mg	mg/kg	<b>34</b>		
Boron	B	mg/kg	<b>1</b>		
Zinc	Zn	mg/kg	<b>4412</b>		
Phosphorus	P	mg/kg	<b>3089</b>		
Barium	Ba	mg/kg	<b>16</b>		
Molybdenum	Mo	mg/kg	<b>0</b>		
<b>ADDITIONAL TESTS</b>					
Unworked penetration			<b>313</b>		

Bottle and Cap



Infrared Spectrum

