

# LAB REPORT

Unit id  
**GEARBOX II**  
Component  
**Industrial transmission**



Lab number: 1705887

Transmission type <b>Gear</b>	Gear manufacturer <b>Flender</b>	Oil brand name <b>Fuchs Renolin CLP 320</b>
Oil quantity in system <b>150 l</b>	Lubrication <b>Splash lubrication</b>	Ambient conditions <b>Hot, humid</b>

Sample Report  
Scope of Analysis: Analysis Kit 2

Iron has increased. The value is somewhat higher than expected. All other determined data are within the permissible or expected values. You should monitor the further change based on the next analysis. Please send us another sample at your next inspection, but no later than after 6 months.

Dipl.-Ing. Andy Böhme [CLS]



CAUTION

ANALYSIS RESULTS			Current sample	Previous samples →			
Lab number			<b>1705887</b>	1705888	1705889	1705890	
SAMPLE RATING							
Date of examination			<b>20.02.2025</b>	07.02.2024	19.01.2023	27.01.2022	
Date of sample taken			<b>22.01.2025</b>	18.01.2024	27.12.2022	05.01.2022	
Date of last oil change			<b>15.09.2020</b>	15.09.2020	15.09.2020	15.09.2020	
Top-up since change			-	-	-	-	
Operating time since change			<b>9200 h</b>	6200 h	2900 h	1320 h	
Total operating time			<b>9200 h</b>	6200 h	2900 h	1320 h	
Oil changed			-	-	-	-	
WEAR							
Iron	Fe	mg/kg	<b>121</b>	62	51	42	
Chrome	Cr	mg/kg	<b>2</b>	1	1	1	
Tin	Sn	mg/kg	<b>0</b>	0	2	0	
Aluminum	Al	mg/kg	<b>0</b>	0	0	0	
Nickel	Ni	mg/kg	<b>1</b>	1	1	0	
Copper	Cu	mg/kg	<b>0</b>	0	0	0	
Lead	Pb	mg/kg	<b>0</b>	0	0	0	
Manganese	Mn	mg/kg	<b>0</b>	0	0	0	
PQ index	-	-	<b>&lt; 25</b>	< 25	< 25	< 25	
CONTAMINATION							
Silicon	Si	mg/kg	<b>2</b>	2	2	2	
Potassium	K	mg/kg	<b>2</b>	3	2	2	
Sodium	Na	mg/kg	<b>0</b>	0	0	0	
Tungsten	W	mg/kg	<b>-</b>	-	2	-	
Water		%	<b>&lt; 0.10</b>	< 0.10	< 0.10	< 0.10	
OIL CONDITION							
Viscosity at 40 °C		mm <sup>2</sup> /s	<b>326.75</b>	332.33	330.44	333.06	
Viscosity at 100 °C		mm <sup>2</sup> /s	<b>25.64</b>	25.43	25.12	25.05	
Viscosity index		-	<b>102</b>	99	98	97	
Oxidation		A/cm	<b>1</b>	1	1	1	
IR index		-	<b>99.26</b>	99.36	99.68	99.87	

# LAB REPORT

Unit id  
**GEARBOX II**  
Component  
**Industrial transmission**



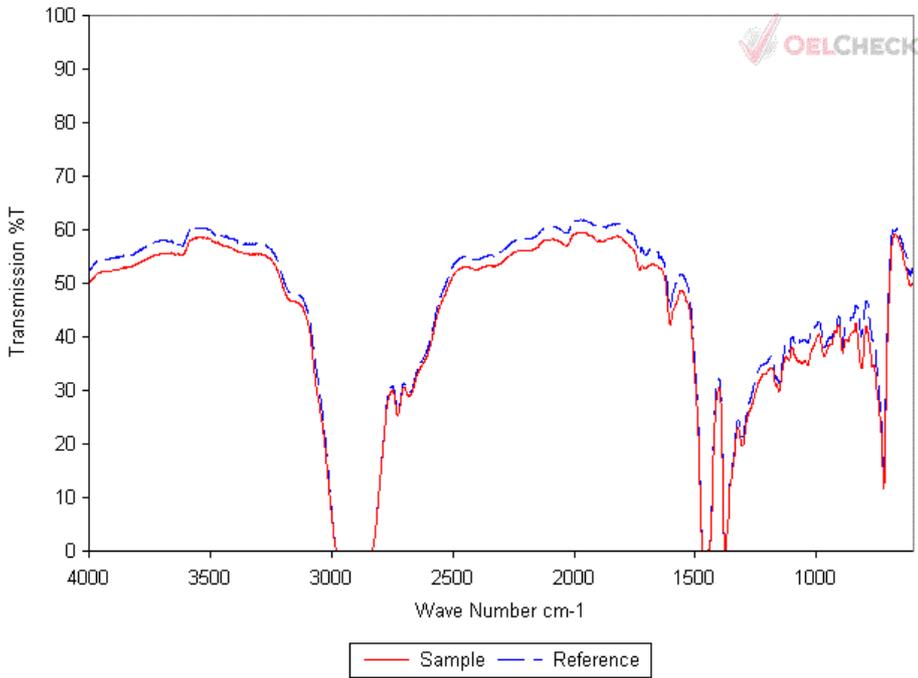
ANALYSIS RESULTS (...)			Current sample	Previous samples →			
Lab number			<b>1705887</b>	1705888	1705889	1705890	
SAMPLE RATING							
Date of examination			<b>20.02.2025</b>	07.02.2024	19.01.2023	27.01.2022	
Date of sample taken			<b>22.01.2025</b>	18.01.2024	27.12.2022	05.01.2022	
ADDITIVES							
Calcium	Ca	mg/kg	<b>0</b>	2	1	1	
Magnesium	Mg	mg/kg	<b>0</b>	0	0	0	
Boron	B	mg/kg	<b>7</b>	8	7	7	
Zinc	Zn	mg/kg	<b>8</b>	10	9	10	
Phosphorus	P	mg/kg	<b>309</b>	321	308	313	
Barium	Ba	mg/kg	<b>1</b>	1	1	1	
Molybdenum	Mo	mg/kg	<b>0</b>	0	0	1	
Sulphur	S	Gew.-%	<b>1.35</b>	1.55	1.46	1.50	
ADDITIONAL TESTS							
AN / NN		mgKOH/g	<b>0.53</b>	0.61	0.58	0.64	



# LAB REPORT

Unit id  
**GEARBOX II**  
Component  
**Industrial transmission**

SAMPLE IMAGES (LABORATORY NUMBER: 1705887)



INFRARED SPECTRUM



BOTTLE AND CAP



**Any questions?**

Phone: +49 8034 9047-210  
ta@oelcheck.de

## LAB.REPORT



- View all laboratory reports at any time - Have them translated directly if required
- Flexible search and filter functions for quick results
- High-resolution images and graphics for optimal detail analysis
- Convenient creation of meaningful trend graphs



[www.lab.report/  
sample/1705887](http://www.lab.report/sample/1705887)