



ZF Padova S.r.l. Unipersonale  
 35030 Caselle di Selvazzano (PD)  
 Italy

**Industrial Technology**  
 Marine & Special Driveline Technology

Department: After Sales & Service  
 From:  
 Phone:  
 Email:  
 Date November 26<sup>th</sup>, 2019

To: **All our Valued Customers**

**ZF 665 Family Maintenance Schedule**

Dear Valued Customer,

Thank you for your preference in our product.

With the aim to help you maintaining our product at its highest level of performances, we are below suggesting the maintenance schedule we developed.

Periodical maintenance will grant proper operating conditions and will help avoiding unpleasant breakdowns.

Planned maintenance will allow you been ready with spare parts and manpower in due time and been organized with your activities accordingly.

A major overhaul at right time will revitalize your product making it ready for a second life.

Maintenance level	Duty	After respective operational hours	Limit Value
A1	all	before every day of operation	3 months
A2	all	500 hours	1 year
A3	all	2.000 hours	2 years
A4	P	according to operating hrs limit of duty	8 years
	L, M, C	according to operating hrs limit of duty	5 years
A5	all	starting 12.000 hours	For every major reconditioning of the engine
Z1	all	50 hours	After commissioning

Please refer to your usual ZF Representative Officer or Contact to have more information on our maintenance levels and the availability of the specific Kits Part Number created for each of them

With Best Regards,  
 ZF Padova S.r.l.

After Sales & Service Manager  
 Gianni D'Incau

<b>ZF 665 Family</b>	<b>Maintenance level</b>					
	<b>A1</b>	<b>A2</b>	<b>A3</b>	<b>A4</b>	<b>A5</b>	<b>Z1</b>
<b>Maintenance works</b>						
Check Oil level	x	x	x	x	x	
Rotate rotary handle of oil filter	x	x	x	x		x
general condition: visual inspection:	x	x	x	x	x	x
Clean transmission externally	x	x	x	x	x	x
Re-tighten all bolts accessible from the outside		x	x	x		
Check control position settings	x	x	x	x	x	x
Lubricate external moving parts		x	x	x	x	
Oil change		x	x	x	x	x
Replace oil filter; clean gap filter and filter housing		x	x	x	x	x
Torsionally flexible clutch: visual inspection				x		
Clutch discs: visual inspection				x		
Running gears: visual inspection				x	x	
replace oil pump				x	x	
Check control unit			x	x		
replace control unit					x	
Recalibrate indicators				x	x	
Inspect and clean oil cooler (check cooling system)		x	x	x	x	
Check shaft seal of input flange		x	x	x		
Check shaft seal of output shaft		x	x	x		
Major transmission overhaul					x	
Check the grounding circuit for possible corrosion				x	x	x