F2J F2J REMAN CHAUMONT & RADOM







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WO PLANTS : CHAUMONT & RADOM

EY FIGURES

REMANUFACTURING

REMAN PRODUCTS & APPLICATIONS

ANGE OF PRODUCTS & APPLICATIONS

2J REMAN PLANT'S MODERNIZATION

ABOUT F2J INDUSTRY

ABOUT F2J REMAN...



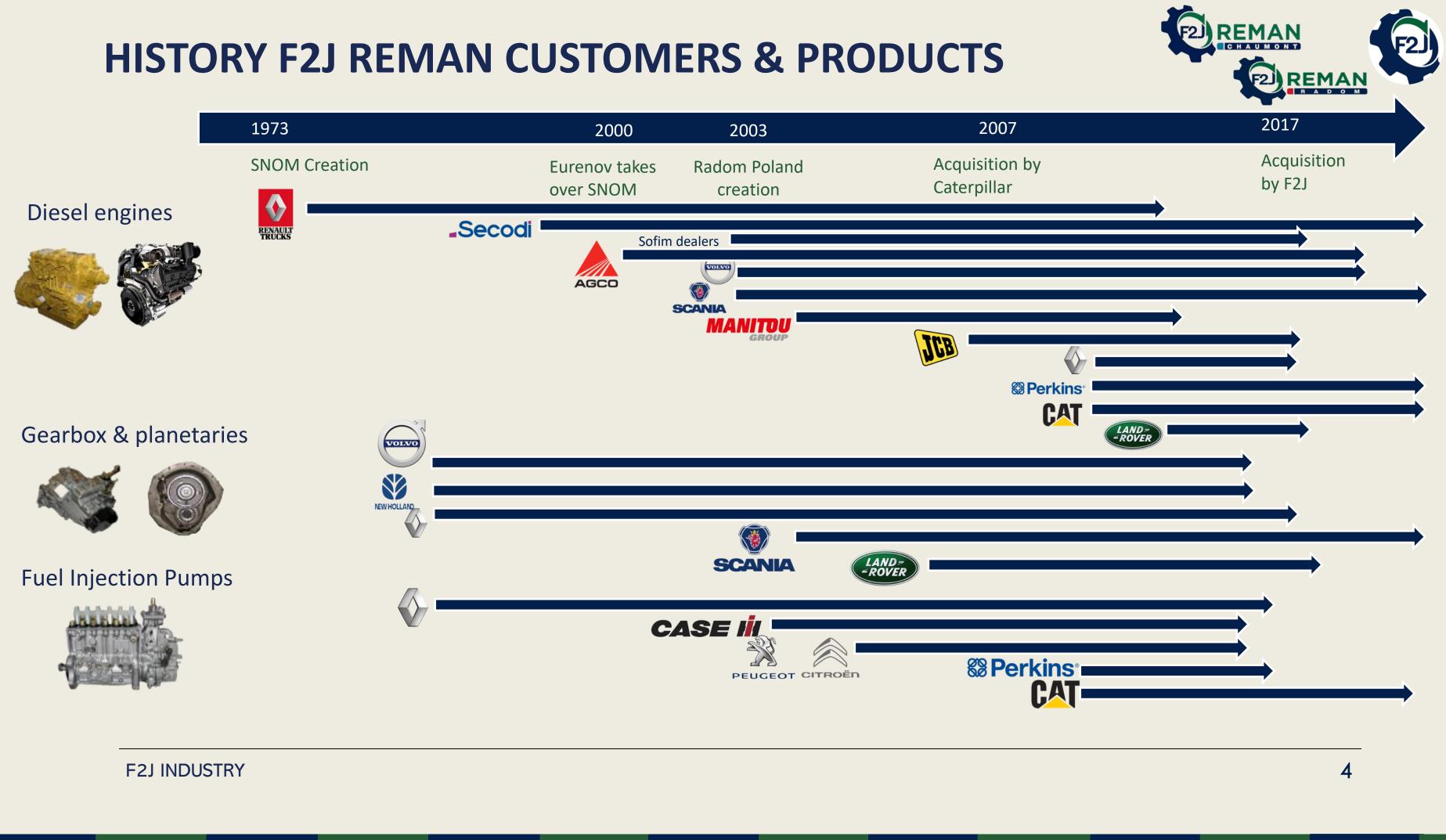
Creation of the company, SNOM, in Chaumont, 2007 1973 Reman subcontractor of Renault Trucks Reman gearboxes for Renault, Volvo, NH 2008 - 2016 **Until 1999** Reman engines for Perkins, New Holland **Reman FIP for Renault** Eurenov takes over SNOM 2000 - 2006 2017 Reman Perkins engines for AGCO, Manitou, JCB, Volvo Reman FIP for Case, Renault, PSA. Creation of Reman Radom factory in Poland Reman engines & transmissions for Scania

F2J INDUSTRY





F2J Reman since April 1st 2017



TWO PLANTS...

CHAUMONT FRANCE

Established in 1973 270km E of Paris 35K sqm land & 10K sqm building 66 Employees



Remanufacturing engines up to 16L Automotive/Trucks and Industrial engines High flexibility, strong service skills & complexity management

Remanufacturing of engines up to 7L Remanufacturing of short engines up to 13L Remanufacturing of transmissions



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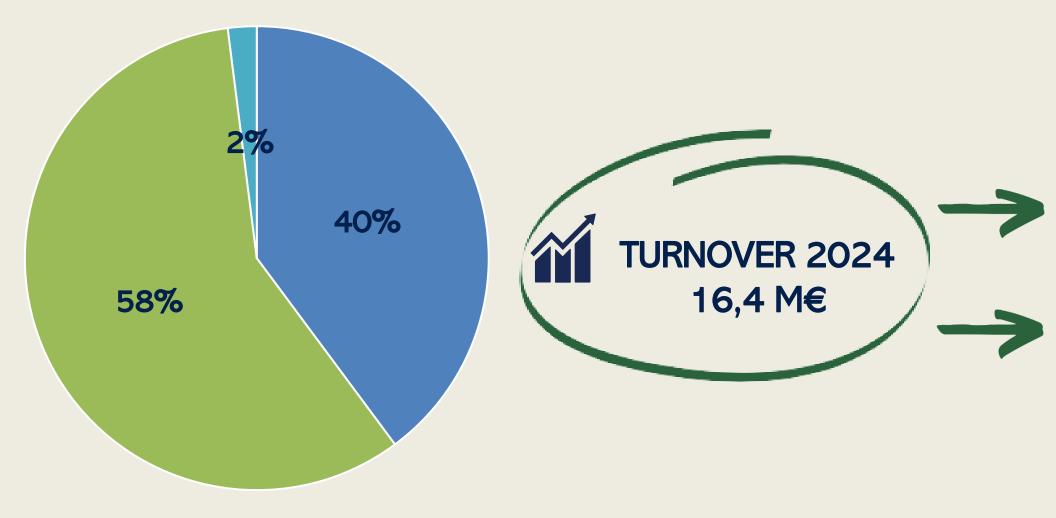
RADOM POLAND

Established in 2003 100km S of Warsaw 3,2K sqm covered 34 Employees



KEY FIGURES OF F2J REMAN





- Scania (Scania engines & transmissions)
- Cat Perkins Secodi (Perkins engines)
- Others (Coldpad)

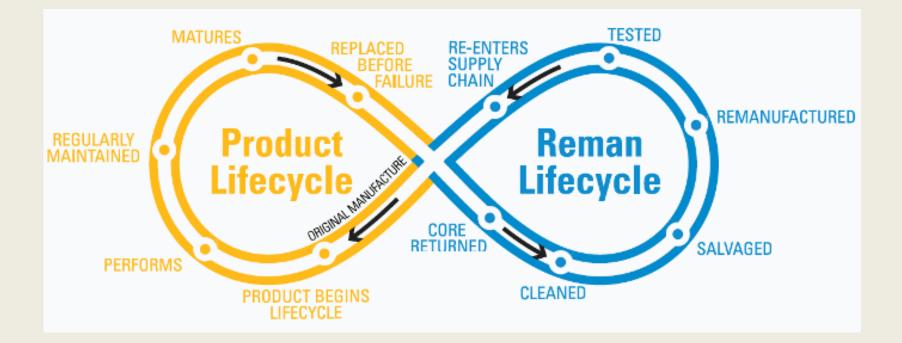


CHAUMONT = 67% RADOM = 33%



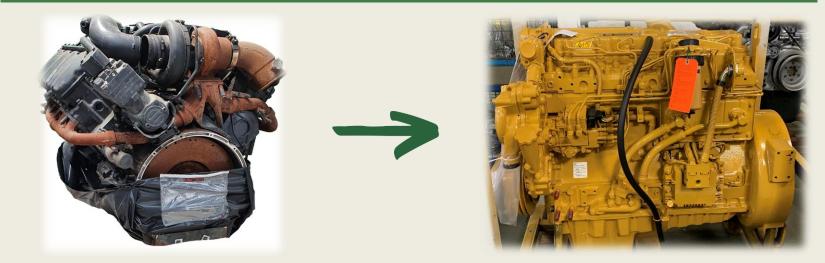
WHAT'S REMANUFACTURING ?





Remanufacturing :

Rebuilding of a product from a core in such a way that it is functionally identical to new part



F2J INDUSTRY





BENEFITS ?



LOWER COST



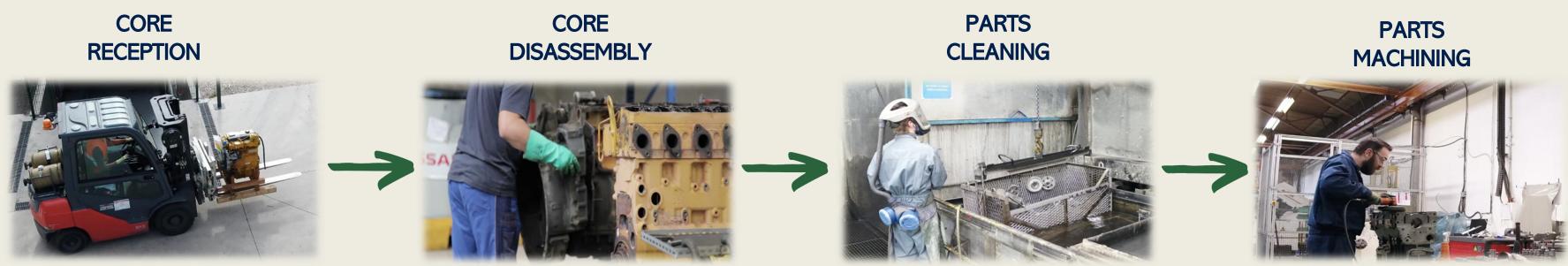
WARRANTY

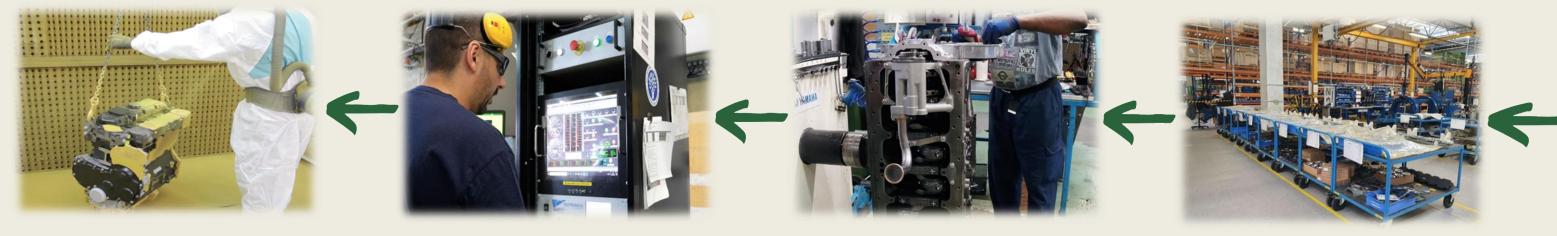


LOWER IMPACT ON THE ENVIRONMENT

7

REMANUFACTURING PROCESS





PAINTING & PACKAGING

TESTING

ASSEMBLY & CONTROL

F2J INDUSTRY











PARTS KITTING

PARTS SORTING

REMAN PRODUCTS



ENGINES



Complete new



Complete reman



Cylinder head



Differential



Delphi DPA, DPC, DP 200

ENGINE COMPONENT S

TRANSMISSIONS





In-line FIP Bosch/Zexel

F2J INDUSTRY



Water pumps



Gearbox Truck





Long engine reman & new



Crankshaft



Gearbox Car



Bosch VP, VE

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REMAN APPLICTIONS





Construction equipment

Agriculture equipment



Trucks & Bus



Commercial vehicles

F2J INDUSTRY





Material handling



Passengers vehicles

RANGE OF PRODUCTS & APPLICATIONS PRODUCTION AT

PERKINS ENGINES

For CAT Grimbergen, Perkins Irlam, OE Customers

Tier 0, 1, 2 & 3 3 to 6 cylinders SubAssy, Short, Long, Complete engines

Reman & New assembly

Small Medium size, up to 6.6L, 925Nm 150kW Test bench in Chaumont



For Scania Oudsbergen

9 to 16 L 8 cylinders in V engines

F2J INDUSTRY



SCANIA ENGINES

5 & 6 cylinders in line SubAssy, Short & Complete



Reman & New Assy

Medium – Large, up to 430kW

RANGE OF PRODUCTS & APPLICATIONS

PRODUCTION AT EREMAN



PERKINS ENGINES

For CAT Grimbergen

3 to 4 cylinders Long block & Complete engines Reman

Reman & New assembly

Small size, up to 4L, 190Nm 38kW Test bench in Radom





Gearboxes Planetary SubAssy

F2J INDUSTRY





SCANIA TRANSMISSIONS

For Scania Oudsbergen



Reman & New Assy

SCANIA ENGINES

Short engine, 6 cylinders in line, 13 L

Reman & New Assy





150

200

50

100



SHORT ENGINE EXCHANGE ENGINE NEWMAN ENGINE NEW ENGINE





SHORT ENGINE LONG ENGINE EXCHANGE ENGIN



F2J INDUSTRY



CAT / PERKINS

	50
	450
NE	1350



F2J REMAN PLANT'S MODERNIZATION



Absestos removed / front building	12/2017 父
Front building finished	12/2017 🟈
Absestos removal for the other areas of the plant	04/2018 – 12/2018 🟈
New locker rooms	02/2021 🟈
New living area	> 05/2021



MACHINING EQUIPMENT MODERNIZATION

CNC 3 axis	12/2017 🟈
Washing machine	01/2018 🟈
Honing machine SV410	10/2019 🟈
Metal spray	11/2019 🟈
CNC for Crankshaft	12/2020 🟈
Servo control / positioning	> 06/2021

F2J INDUSTRY



























Test Bench Cell Renovation

01/2018



Warehouse re-implementation	05/2018	\bigcirc
Building for core storage	01/2019	\checkmark
Assembly - Dismantling - Test bench areas re-implementation	03/2018	\bigcirc



Evaporator

01/2021















F2J REMAN PLANT'S MODERNIZATION



INTRODUCTION OF A NEW TECHNOLOGY OF VISION

Automatic tracking / recognition of parts

Automatic elimination of bad parts (pn, condition)

Since 03/2018

Next step

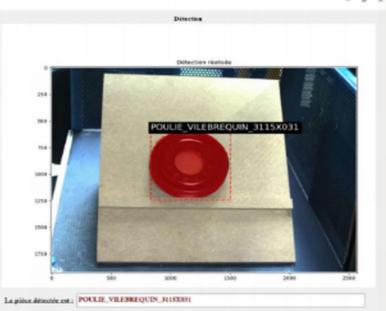
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Parts identification: how does it work?



- Identify the part's P/N
- Say if the part is for this engine or not allowed to be used
- Help the operator to check the part
- Feed the ERP with the information







F2J INDUSTRY











F2J REMAN PLANT'S MODERNIZATION



F2J REMAN RADOM NEW PLANT

End of Factory Construction Start of Factory Operations Chaumont Test Bench upgrade (container) Test Bench reception & training in Chaumont Transfer Test Bench to Radom







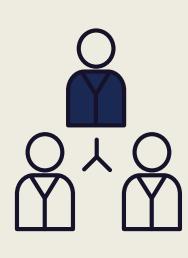






ABOUT F2J INDUSTRY...







Turnover: 195 M€ 1 650 employees 4 plants in France 1 plant in Poland 3 plants in Argentina 1 plant in Brazil 2 plants in Spain 1 plant in USA





http://f2jindustry.com

https://www.linkedin.com/company/f2jindustry

F2J INDUSTRY INDUSTRIAL GROUP OF COMPANIES



Indiana

Turnover: 8,8 M € / 45 Employees 5.000 m² Factory surface Certified IATF 16949





Córdoba

Turnover: 29,4 M € / 230 Employees 12.354 m² Factory Surface Certified IATF 16949 and ISO 14001



Córdoba

Turnover: 25,8 M € / 330 Employees 16.000 m² Factory surface Certified IATF 16949 and ISO 14001



Buenos Aires

Turnover: 5,4 M € / 135 Employees 12.000 m² Factory surface Certified: IATF 16949:2016 and ISO 14001

 \mathbf{O} Number of employees: 1650





São Paulo

Turnover: 37 M € / 395 Employees 22.000 m² Factory surface Certified IATF 16949





Pamplona

Turnover: 6,5 M € / 34 Employees 7.000 m² Factory surface Certified IATF 16949 and ISO 14001



Zuera

Turnover: 23 M € / 95 Employees 6.000 m² Factory surface Certified IATF 16949 and ISO 14001





Radom

Turnover: 5,5 M € / 40 Employees 3.200 m² Factory surface Certified IATF 16949 and ISO 14001

4 sites in France / 1 site in Poland / 3 sites in Argentina / 1 site in Brazil / 2 sites in Spain / 1 site in USA

F2J INDUSTRY







Auxi-le-Château

Turnover: 9,5 M€ / 91 Employees 26.000 m² Factory surface Certified IATF 16949



Chaumont

Turnover: 10,9 M€ / 66 Employees 9.700 m² Factory surface Certified IATF 16949 and ISO 14001



F2) STAMPING

Bessines-Sur-Gartempe

Turnover: 13 M€ / 84 Employees 12.000 m² Factory Surface



Valentigney

Turnover: 20 M€ / 105 Employees 18.894 m² Factory surface Certified ISO 16949

> Ξ Annual TO: **195 M€**

THANK YOU FOR YOUR ATTENTION





