



# YOUR CHECK IS IN THE MAIL

  
**labcheck**  
preventive maintenance systems

## WHAT IS CASTROL LABCHECK PREVENTIVE MAINTENANCE SYSTEM?

Castrol Labcheck is a rapid and accurate oil analysis program that can reveal vital information about the condition and performance of engines, gearboxes, transmissions and associated equipment.

The key to oil analysis is "trending".

We can see after oil from an engine crankcase has been sampled several times, trends start to appear which can provide a lot more important information than random one-off samples. It is a valuable aid to planned maintenance.

## HOW DOES CASTROL LABCHECK WORK FOR YOUR BUSINESS?

Unexpected downtime through engine, transmission, gearbox or any other associated equipment failure can be very costly for your business.

Including Labcheck as part of your maintenance scheduling, allows you to plan for timely repairs. You could save a lot of money by avoiding costly repairs from random breakdowns and unscheduled downtime.

## OIL DIAGNOSIS RESULTS

Oil samples can be taken from compartments such as: **Petrol, gas, diesel and marine engines, hydraulic systems, turbines, gears, transmission and air compressors.**

From these compartments wear metals, additives, physical characteristics, contaminants and viscosity, are analysed to determine the condition of the oil AND, the equipment.

**The results from these tests can indicate conditions such as unburnt fuel, soot, water or dust contamination, viscosity changes and a myriad of other information depending on the compartment.**

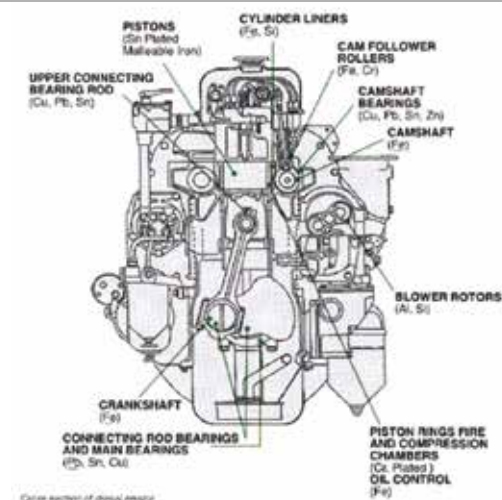
## WEAR METALS

One of the key roles of oil analysis is the detection of those metals which indicate that wear is occurring.

Original Equipment Manufacturers (OEM's) specify the maximum level of each wear metal.

Levels above this limit normally mean excessive wear.

This diagram details the major source of wear metals in a diesel engine.





# CHOOSE CASTROL LABCHECK AS YOUR BUSINESS PARTNER

If your long haul truck travels say 200,000 km per annum, under the Labcheck preventive maintenance program, typically you would draw an oil sample every 20,000km or at each oil change and you would receive a report on the condition of your sample.

By using the Castrol Labcheck analysis kits as part of your regular servicing programme we can help your team identify undetected leaks or problems, which could lead to costly engine or component failures and the loss of operating profit with the truck off the road.

**PLUS** without this knowledge, preventive mechanical maintenance is not possible.

## WHY TAKE THE RISK?

FEATURES OF CASTROL LABCHECK	BENEFITS OF CASTROL LABCHECK
It is a Castrol service	✓ Reliable
35 years experience	✓ Large data base of technical information
Rapid communication of analysis result	✓ Prevents further equipment damage
Low cost	✓ Early detection of problems, immeasurable savings
Consistent results	✓ Reliable forecasting of potential problems
Can be utilised for any compartment	✓ Broad application on and off-road, and industry
Suitable for any conventional lubricants	✓ Tells you what's happening in the engine without pulling it apart
Can see 'inside' the engine	
Technical Helpline	✓ Instant assistance
On-line website service	✓ Full detailed information answering all your questions
Easy to use	✓ Just take an oil sample and post, we do the rest
Sets up a history data base	✓ Underpins maintenance schedules



## ESSENTIAL ELEMENTS FOR EFFECTIVE CASTROL LABCHECK MAINTENANCE PROGRAMME

- 1) Careful and timely sampling
- 2) Accurate description of the sample on the Sample Information Form
- 3) Accurate records
- 4) Commitment to the programme over the long term
- 5) Commitment to act on the recommendations provided by Castrol Technical Services

## HOW TO ORDER CASTROL LABCHECK

Call Castrol Customer Service on 0800 22 78 76 and ask to order a Castrol Labcheck Kit. Or, use the fax Hot Line Number 0800 30 90 30.

## CASTROL LABCHECK ONLINE

Castrol Labcheck provides an online tool to assist you in understanding the results of your testing. This online tool enables you to look at the data in a variety of different ways including long term trends. The website is [www.castrollabcheck.co.nz](http://www.castrollabcheck.co.nz). For further information, to gain access to this site or for additional support in interpreting the results available on this site please call the Castrol Technical Helpline on 0800 10 40 60.

**Important Notes**

1. New Zealand Post advise it is illegal to send fuel (either petrol or diesel), or any flammable fluid, in the Castrol Labcheck sample kits.
2. Castrol Labcheck does not provide analysis service for refrigeration systems (ammonia in particular) due to safety issues
3. If no Sample Information Form is enclosed with the oil sample, no oil analysis will be undertaken
4. Incomplete sample information will result in delays in processing, or no processing until sufficient information is supplied.

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