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# Oil Test Solutions

Simple to Use & Economical  
 Fuel & Lube Oil Testing Made Easy



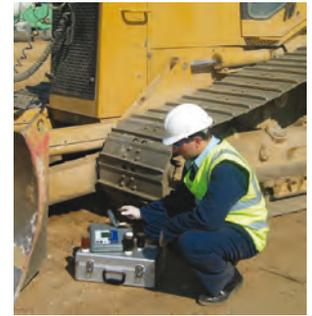
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 **Kittiwake**

ENGINEERING YOUR SUCCESS.

# Make fast on-site maintenance decisions fast with Parker Kittiwake's complete range of oil test kits. An economical range, providing reliable oil condition results in minutes.

Parker Kittiwake's oil test kit range provides a complete set of economically priced equipment, with a level of accuracy suited to routine analysis. Oil test kits provide you with a condition monitoring tool enabling you to make informed operational and maintenance decisions about your critical plant and equipment. The ability to test on-site at the point of use enables engineers and facilities managers to conduct oil analysis quickly and easily. Detecting out-of-spec fuels and lubricants can identify potential problems, before become critical. Choose from a range of equipment and parameters to use either individually, or combined as a single test kit.



Protect your assets, improve productivity & increase uptime with regular on-site oil analysis

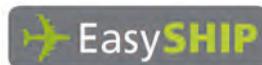
## Multi-Parameter Oil Test Kits



Supplied ready for use, in heavy duty aluminium or durable ABS cases, Parker Kittiwake's multi-parameter test kits contain all of the necessary equipment and consumables for your oil condition monitoring needs.

- Fast, accurate results for multiple oil parameters, in an easy to use, portable kit
- Make informed on-site maintenance decisions
- Act before the onset of critical failure
- Robust and reliable for use in harsh or remote environments

Non-hazardous for shipping water in oil test available when you see the EasySHIP logo



Product Code	Description	Tests Included	Range
FG-K1-102-KW	DIGI Water / Viscosity Kit → EasySHIP version	DIGI Water in Oil Cell ECON Viscostick	0.02-1%, 200-10,000 ppm, 0-10%, 0-20% go/no go
FG-K1-103-KW	DIGI Basic Kit → EasySHIP version	DIGI Water in Oil Cell ECON Salt Test ECON Insolubles Test ECON Viscostick	0.02-1%, 200-10,000 ppm, 0-10%, 0-20% go/no go qualitative go/no go
FG-K1-107-KW	DIGI Industrial Kit → EasySHIP version	DIGI Combined Water in Oil/BN cell ECON Insolubles Test ECON Viscostick	0.02-1%, 200-10,000 ppm, 0-10%, 0-20% / 5-100 BN qualitative go/no go
FG-K1-108-KW	DIGI Field Kit → EasySHIP version	DIGI Combined Water in Oil/BN cell ECON Insolubles Test ECON Viscostick ECON AN Test	0.02-1%, 200-10,000 ppm, 0-10%, 0-20% / 5-100 BN qualitative go/no go AN: 0-6
FG-K1-110-KW	DIGI Combined Kit → EasySHIP version	DIGI Combined Water in Oil/BN cell ECON Salt Test ECON Insolubles Test ECON Viscostick	0.02-1%, 200-10,000 ppm, 0-10%, 0-20% / 5-100 BN go/no go qualitative go/no go
FG-K14971-KW	DIGI Clean Oil Kit	DIGI Water in Oil Cell DIGI Viscotube ECON AN Test	0.02-1%, 200-10,000 ppm, 0-10%, 0-20% 20-600 cSt @ 40°C AN: 0-6
FG-K16897-KW	DIGI Biodiesel Test Kit	DIGI Low Range Water in Oil Cell Low Range Falling Ball Viscometer Density Hydrometer Free Fatty Acid Test / AN Test Visual Test (Cleanliness)	0.02-1%, 100-3000 ppm, 0-10% 1-10 cSt @ 40°C 850-950 kg/m³ Acid Content / 0-6 AN qualitative

NB: Electronic laboratory grade analysis equipment is also available for Water in Oil, Base Number (BN), Acid Number (AN) and Insolubles. See the Oil Analysis Solutions Brochure for further details.

## Parker Kittiwake Test Cells

At the heart of Parker Kittiwake's on-site oil test solution range, is the DIGI Test Cell, providing simple, accurate results for Water in Oil and Base Number (BN).

With an easy to read digital display providing instructions and results, a five year (5000 tests) battery life and built in memory for recording previous test results, the Parker Kittiwake DIGI Cell has become a favoured test method worldwide for on-site and on-board testing. Test cells are available individually for either Water in Oil or Base Number. Alternatively, a DIGI Combined Test Cell is available that performs both test parameters in a single cell.

Both types of test cells have recently been upgraded to offer increased functionality and usability. All reagents and test methods remain the same.



## Water in Oil



Maintain and protect your equipment, whilst eliminating damage caused by water in your oil.

The DIGI Water in Oil Test Kit provides state of the art, digital analysis and gives fast, accurate results for easy monitoring of trends. The DIGI Water in Oil Test Kit contains the test cell together with all necessary reagents and equipment for an easy to use, economical test.

### Ordering Information

FG-K1-101-KW: DIGI Water in Oil Kit  
 FG-K17032-KW: DIGI Water in Oil Kit (Low Range)

Range: 0.02-1%, 200-1000 ppm, 0-10%, 0-20%  
 Range: (LR): 0.02-1%, 100-3000 ppm, 0-10%  
 Test Time: 3 minutes  
 Memory: Previous test, plus five oils  
 Battery Life: Five years (5000 tests)

- Prevent corrosion, cavitation or failure of your machinery by detecting water in oil, before any damage occurs
- Minimise instability of additive packages and damaging microbe growth by monitoring your oil
- Fully portable for use on-board or in the field, test kits are extremely robust, durable and easy to use

## Base Number (BN)



Measure your oil's alkaline reserve and ability to neutralise acids from combustion.

The DIGI BN Test Kit provides state of the art, digital analysis and gives fast, accurate results for in-depth monitoring of trends. The DIGI BN Test Kit gives a rapid indication of BN depletion in lubricants.

### Ordering Information

FG-K1-004-KW: DIGI BN Test Kit

Range: 5-100 BN  
 Accuracy: Typically  $\pm 10\%$  of new oil BN  
 Test Time: 3 minutes  
 Memory: Previous test, plus five oils  
 Battery Life: Five years (5000 tests)

- Avoid fouling within the engine and corrosion of engine components by monitoring the Base Number (BN) of your lubricating oils
- Simple, economical monitoring of lubricants

## Viscosity



Viscosity is widely regarded as an oil's most important characteristic. It is the viscosity that shows the oil's resistance to flow and the strength of the oil film between surfaces.

The Parker Kittiwake DIGI Viscometer (or Viscotube) uses the falling ball technique to measure the viscosity of an oil. The DIGI Viscotube is provided with viscosity calculation software and a Digital Thermometer for accurate results.

The ECON Viscostick gives a simple go/no go result. Typically it will detect 5-10% distillate fuel dilution of an SAE 30 to 40 engine oil as well as increases in viscosity due to oil contamination.

- Make informed maintenance decisions and prevent costly machinery downtime
- Measuring oil viscosity provides early detection of contamination, fuel ingress and shear thinning
- Suitable for hydraulic oils, diesel engine oils, enclosed gears and fuel oils
- Simple, cost effective equipment requiring no consumables

### Ordering Information

FG-K14828-KW: DIGI Viscotube

Range: 20-600 cSt @ 40°C using three sizes of ball  
Application: Lubricating oils, hydraulic oil, warm fuel oil

No. of Tests: Unlimited  
Test Time: 1-10 minutes

FG-K3-020-KW: ECON Viscostick

Range: go/no go  
Application: Lubricating oils, viscous hydraulics  
No. of Tests: Unlimited  
Test Time: 1 minute



## Acid Number (AN)



Testing for AN is essential to maintain and protect your equipment, preventing damage in advance.

Measure both the weak organic and strong inorganic acids present within an oil with the Parker Kittiwake AN Test. A rise in AN is indicative of oil oxidation due to time or operating temperature.

- Test kit is supplied with up to fifty tests, enabling you to monitor AN level trends
- Simple to use drop test - the result is shown by a colour change, providing you with easy to interpret results, suitable for use by non-technical personnel

### Ordering Information

FG-K24743-KW: ECON AN Drop Test Kit

Range: 0-6 AN  
Application: Turbine, gear and hydraulic oils  
Test Time: 2 minutes  
Accuracy:  $\pm 0.3$  AN  
No. of Tests: 25

## Salt Water Contamination



Eliminate rapid corrosion in lube oil, fuel or hydraulic systems by checking for the presence of salt.

- Provides rapid indication of the presence of salt, even if all the water has been evaporated
- Fast and easy to use

### Ordering Information

FG-K1-005-KW: ECON Salt Water Contamination Test Kit

Range: go/no go  
Application: Lubricating oil, fuel, water  
Test Time: 1 hour (unattended)  
No. of Tests: 25

## Reagents, Spares and Consumables



Parker Kittiwake test kits for individual parameters contain reagents, consumables and full instructions for multiple tests.

- Replacement reagents can be ordered at short notice
- Kits contain all necessary equipment for instant test results in the field
- Reagents are packed in accordance with IATA/IMDG/IRD Air/Marine/Road Transportation codes and can be delivered to major ports worldwide

## Particle Contamination - Hydraulic Particles (Patch Test)



Monitoring your hydraulic and gearbox oils is a necessary part of any preventative maintenance programme.

One of the most valuable indicators of machinery condition is oil cleanliness. The presence of particulate contamination in hydraulic or gearbox oils can be catastrophic. Monitoring fluid cleanliness levels assists in identifying abnormal conditions and preventing potential machinery damage.

### Ordering Information

FG-K14368-KW: Hydraulic Particles Test Kit

Range: qualitative

Application: Hydraulic oil, gearbox lubricants

No. of Tests: 100

Test Time: 5 minutes

- Identify abnormal conditions as part of your preventative maintenance programme
- Clear and easy examination of particle contamination
- No interference from water droplets or pearlescent fluids
- Comes with a full instruction manual, containing contamination charts for easy analysis of results
- Test kit is supplied in a fully portable, robust case for quick and easy testing in the field



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