



# HYDROTREATED VEGETABLE OIL FUEL (HVO)

## **FUEL A LOW CARBON FUTURE**

Lower fuel-related net carbon emissions by up to 90% without any engine modification.



**FUELLING FUTURES**



## WHY REDUCE YOUR EMISSIONS?

**Reducing harmful emissions is high on the agenda. What is your business plan for the transition to net-zero carbon emissions by 2050?**

If your sustainability and carbon reduction strategy involves mitigation tactics to 'Avoid. Reduce. Offset', switching to a low emission diesel alternative, like Hydrotreated Vegetable Oil (HVO), provides immediate impact.

Wherever you are on your journey to reducing your emissions, we can help you do it the right way.



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**WORK WITH THE FUEL EXPERTS TODAY**  
**CALL 0345 600 4040**

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**FUELLING FUTURES**

# WHY USE HVO INSTEAD OF TRADITIONAL DIESEL (DERV)?

**If your business is reliant on diesel, Hydrotreated Vegetable Oil (HVO) provides a real opportunity to reduce carbon emissions by up to 90%.**

For large commercial fleets, this drop-in diesel alternative is ideal for on- and off-road vehicles across a range of industries.

## HVO BENEFITS ALL BUSINESSES



Construction



Agriculture



Road and rail transport



Haulage



Marine



Public sector



**UP TO 90%  
CO<sub>2</sub> REDUCTION**

**Delivering an instant  
reduction of CO<sub>2</sub> emissions**

Without changes to engine  
infrastructure or machinery



# WHAT IS HVO?

Manufactured from 100% renewable and sustainable waste, Hydrotreated Vegetable Oil (HVO) is a paraffinic drop-in fuel that can be used as a replacement for diesel. Certas Energy HVO is produced and accredited to meet the international fuel standard BS EN 15940, the specification for paraffinic diesel, and the Fuel Quality Directive 2009/30/EC Annex II.

FAME, sulphur and fossil free, it is made using vegetable fats and oils. Unlike conventional biodiesel, hydrogen (rather than methanol) is used as a catalyst, which makes HVO cleaner burning and ensures a long shelf life.

## BENEFITS OF USING HVO

**In addition reducing carbon emissions by up to 90%,  
HVO benefits include:**



Long shelf life



Low temperature  
performance  
CFPP to  
-30 degrees



Completely  
biodegradable



Fossil/FAME free  
and odourless



Improved  
combustion over  
some diesel  
alternatives

## OEM APPROVED ORIGINAL EQUIPMENT MANUFACTURER

Tried and tested, Certas Energy HVO is approved by the following manufacturers currently, with more manufacturer's approvals on the way.

### Heavy Duty Road Vehicles



### Non-Road Vehicles



*To check your vehicle or equipment model already has OEM approval, consult your manufacturer's handbook or contact the manufacturer directly.*

## FUELLING FUTURES



# HVO FUEL TECHNICAL SPECIFICATION

PRODUCT DETAILS	
<b>Product:</b>	Hydrotreated Vegetable Oil (HVO)
<b>Applicable Standards:</b>	BS EN 15940:2016
<b>Use:</b>	In diesel engines
<b>Notes:</b>	1. Appearance is clear and bright

SPECIFICATION					
PROPERTY		UNIT	LIMITS		TEST METHOD
			MINIMUM	MAXIMUM	
Cetane Number		-	70.0	-	EN ISO 15195
Density at 15 °C		kg/m3	765	800	BS EN ISO 12185
Flashpoint		°C	55.00	-	BS EN ISO 2719
Kinematic Viscosity at 40 °C		mm2/s	2.00	4.50	BS EN ISO 3104
Total Aromatics		% (m/m)	-	1.1	EN 12916
Distillation:	Recovered at 250 °C	% (v/v)	-	<65	EN ISO 3924
	Recovered at 350 °C	% (v/v)	85	-	EN ISO 3924
	Recovered at 95%	% (v/v)	-	360	EN ISO 3924
Lubricity, wear scar diameter at 60 °C		um	-	460	ISO 12156-1
Fatty Acid Methyl ester (FAME) content		% (v/v)	-	7.0	EN 14078
Manganese content		mg/l	-	2.0	EN 16576
Total Aromatics Content		% (m/m)	-	1.1	EN 12916
Sulphur Content		mg/kg	-	5.0	EN 12916
Carbon Residue (on 10% Distillation Residue)		% (m/m)	-	0.30	BS EN ISO 10370
Ash Content		% (m/m)	-	0.010	BS EN ISO 6245
Water Content		% (m/m)	-	0.020	BS EN ISO 12937
Total Contamination		mg/kg	-	24	EN 12662
Copper Corrosion (3h at 50°C)		Rating	Class 1		EN 12662
Oxidation Stability		g/m3	-	25	BS EN ISO 12205
		H	20.0	-	EN 15751
Cloud Point		°C, max	As per EN 590		
Cold filter plugging point (CFPP)		°C, max	As per EN 590		



# FUEL YOUR FUTURE THE RIGHT WAY WITH CERTAS ENERGY

## TRANSPARENT TRACEABILITY

### Certified and verified supply



As you would expect from the UK's leading fuel and lubricants distributor, Certas Energy HVO meets the highest auditable product standards possible.

Ensuring our HVO is manufactured from primary waste sources and not those causing deforestation and environmental damage, we only partner with the International Sustainability and Carbon Certification (ISCC) certified HVO suppliers; each one having a fully validated and auditable supply chain.

## CARBON OFFSETTING

### Want to offset unavoidable emissions?



The path towards zero CO<sub>2</sub> emissions is a core part of many organisations' environmental and operating strategies. Sometimes though, residual emissions are unavoidable as they cannot be reduced through other carbon reduction activities, such as promoting energy efficiency or utilising renewables. This is where offsetting comes in.

Talk to the Certas Energy Team to find out how your business can reduce and offset its fuel-related carbon emissions.

## YOUR PARTNER IN CARBON REDUCTION

### Reducing environmental impact. Together.



As well as helping your business lower its emissions, we are committed to reducing our own carbon emissions, with the next goal be a 20% reduction before 2025.

With the introduction of HVO and bio fuels into our own fleets, as well as developing solutions focused on future fuel technology with a long term view, businesses are reassured that Certas Energy is on the vision zero journey together with our customers.



## WHY CHOOSE CERTAS ENERGY HVO?

**Certas Energy is the largest distributor of fuel and lubricants in the UK with 40 years' experience supplying high-quality fuel to businesses nationwide, so you can count on us to deliver your fuel on time and in full.**



130 local depots across the UK



900 tankers delivering nationwide



Quality products from reputable refineries and accredited sources



Fully accredited above best practice Health, Safety and Environmental standards



Competitive and flexible pricing



Fuel expertise across 2,300 UK employees



More than just fuel – complete range of fuel supply and management products and services



**CERTAS ENERGY HVO**





# LOOKING TO TRANSITION TO A LOW CARBON EMISSION FUTURE?

HVO can make an immediate impact on your business.



**0345 600 4040**



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