Alpha Maintenance Systems



Analysis Report ATLAS COPCO PTS1600 (864909/18504)

Class D

Class E

Class F

max -10°C

max -15°C max -20°C

System:	DIESEL	Customer: ATLAS COPCO RENTAL EUROPE	
Sump Capacity:	85 L		Luc Despeghel
Fuel type	DIESEL	Address: INDUSTRIEWEG 1F	
Labocodenbr:	109897-tqf9		
Samplenumber:	23.05.24 S003		B- 2850 BOOM
Labelnumber:	429000801390		
Date sample drawn:	14.05.2024	Your customer:	864909/18504
Sampling:	by client	Your ref.:	B/864909/18504/PTS1600

Diagnostic

Appearance : bright red. There is no visual precipitation. For the insolubles (based on EN12662), 284 g of sample was used. Defilement of the sample by an increased content of insolubles. Microscopic examination of the patch shows the presence of black and brown particles, silicon particles and some fibres. No bacteria or fungi present in the fuel. AMS 002260

Results:		Current sample			23.05.24 S00
Analysis date		23/05/2024			
Sample date		14/05/2024			
Fuel condition:			EN 590	Min	Max
Density	kg/m³			820.0	845.0
Visual		red			
S: Sulfur content	ppm	5.22			10.0
Viscosity at 40°C	cSt	3.0		2.0	4.5
Water content	ppm	43			200
Pollution/additives:			EN 590	Min	Max
Al: Aluminium content	ppm	< 1			10.0
Ba: Barium content	ppm	< 1			10.0
Ca: Calcium content	ppm	< 1			10.0
Cu: Kopper content	ppm	< 1			10.0
Fe: Iron content	ppm	< 1			10.0
Mg: Magnesium content	ppm	< 1			10.0
Mn: Mangan content	ppm	< 1			2.0
Na: Sodium content	ppm	< 1			10.0
Pb: Lead content	ppm	< 1			10.0
V: Vanadium content	ppm	< 1			10.0
Zn: Zink content	ppm	< 1			10.0
Bacteria		0			
Insolubles	mg/kg	43			24-50: Follow-up
					>50: Alert
Quality:			EN 590	Min	Max
Distillate at 250°C	V%				< 65
Distillate at 350°C	V%			85.0	
95% (V/V) distilled at	°C				360.0
Flashpoint	°C			> 55.0	
Cetane index				46.0	
Cetane number				51.0	
PAK (Aromaten)	m%				8.0
FAME (biodiesel)	V%				7.0
CFPP	°C			A-class	max +5°C
				Class B	max 0°C
				Class C	max -5°C

These conclusions are based on the tested supplied samples and information where the representativeness and validity cannot be guaranteed. Opinions and interpretation are outside the scope of accreditation. The measurement uncertainty is available on request. Samples are destroyed 2 months after receipt. The report may only be reproduced complete. Distribution on the responsibility of the client. 'Methods are modified according to specified method. (A)Accreditation. (U)Outsourced.





Microscopical analysis ATLAS COPCO PTS1600 (864909/18504)

System:	DIESEL	Labocodenbr:	109897-tqf9	
Sump Capacity:	85 L	Labelnumber:	429000801390	
Lubricant:	DIESEL	Samplenumber:	14.05.24	
Your ref.:	B/864909/18504/PTS1600	Analysis date:	23.05.24	

The sample was diluted with an organic pre-filtered solvent and filtered on a 0.7 µm fiberglass filter. After filtration, the filtrate was dried and analyzed under microscope.

Particle type:	None	Few	Moderate	Many
White metal:	\checkmark			
Black particles:			\checkmark	
Rust particles:	\checkmark			
Silicon:		\checkmark		
Fibers:		\checkmark		
Weldings:				
Plastics:				
Copper:	\checkmark			
Polymers:				
brown particles			\checkmark	

Final judgement:

Normal	Moderate	🗌 High
	Diagnostic:	

These conclusions are based on the tested supplied samples and information where the representativeness and validity cannot be guaranteed. Opinions and interpretation are outside the scope of accreditation. The measurement uncertainty is available on request. Samples are destroyed 2 months after receipt. The report may only be reproduced complete. Distribution on the responsibility of the client. "Methods are modified according to specified method. (A)Accreditation. (U)Outsourced.