

Analysis Report

ATLAS COPCO PTS 1600 (391685/14249)

DIESEL Customer: ATLAS COPCO RENTAL EUROP System:

Luc Despeghel Sump Capacity: 900 L **INDUSTRIEWEG 1F** Fuel type DIESEL Address:

Labocodenbr: 109830-XZf9 B- 2850 BOOM

Labelnumber: 429000800691

27.11.23 S005

3.11.2023 391685/14249 Date sample drawn: Your customer: Sampling: by client Your ref.: D+/391685/14249/PTS1600

Diagnostic

Samplenumber:

Appearance: bright yellow. We notice brown particles on the bottom of the sample bottle. The fuel is contaminated with a significant amount of water. No bacteria or fungi present in the fuel. For the insolubles (based on EN12662), 152 g of sample was used. Defilement of the sample by a high content of insolubles. Microscopic examination of the patch shows the presence of black, brown and red particles, silicon particles and fibres.

Action

Results:	(Current sample			27.11.23 S005
Analysis date		27/11/2023			
Sample date		3/11/2023			
Fuel condition:			EN 590	Min	Max
Density	kg/m³			820.0	845.0
Visual		yellow			
S: Sulfur content	ppm	10.0			10.0
Viscosity at 40°C	cSt	3.6		2.0	4.5
Water content	ppm	244			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	2			10.0
Bacteria		0			
Insolubles	mg/kg	280			24-50: Follow-uբ
					>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
				Class D	max -10°C
				Class E	max -15°C
				Class F	max -20°C

These conclusions are based on the 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

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System: Sump Capacity: Lubricant: Your ref.:	DIESEL 900 L DIESEL D+/391685/14249/PTS1600	Labocodenbr: Labelnumber: Samplenumber:	109830-XZf9 429000800691 03.11.23	
Your rei	D+/391665/14249/P151600	Analysis date:	27.11.23	

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:	✓			
Black particles:				✓
Rust particles:	✓			
Silicon:				✓
Fibers:				✓
Weldings:	✓			
Plastics:	✓			
Copper:	✓			
Polymers:	✓			
brown and red particles				✓
Final judgement: Normal	☐ Moderate		✓ High	
	Diagnos	stic:		

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