

System:	DIESEL	Customer:	ATLAS COPCO RENTAL EUROP
Sump Capacity:	?		Luc Despeghel
Fuel type	FUEL GNR	Address:	INDUSTRIEWEG 1F
Labocodenbr:	109830-NRf9		B- 2850 BOOM
Samplenummer:	26.05.23 S003	Your customer:	347357/13630
Labelnummer:	00706114	Your ref.:	F/347357/13630/PTS1600
Date sample drawn:	12.05.2023		
Sampling:	by client		

### Diagnostic

Aspect: clear red. There is a visual precipitation on the bottom of the sample bottle. We notice a high sulphur content. The fuel is contaminated with a significant amount of water. No bacteria or fungi present in the fuel. For the insolubles (based on EN12662), 26 g of sample was used. For a precise result, we would like to receive 300 ml of sample. Microscopic examination of the patch shows the presence of yellow and black particles.

Action

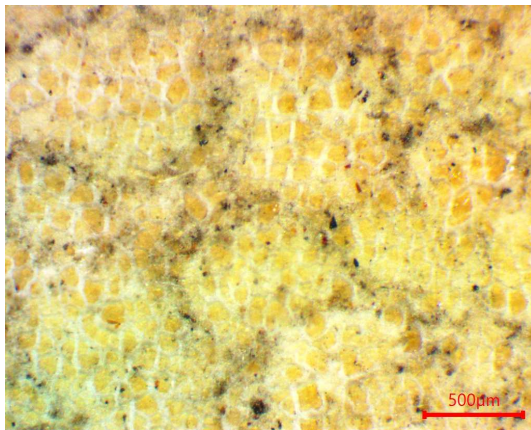
Results:		Current sample	26.05.23 S003
Analysis date		26/05/2023	
Sample date		12/05/2023	
Fuel condition:		EN 590	Min Max
Density	kg/m <sup>3</sup>		820.0 845.0
Visual		red	
S: Sulfur content	ppm	15.2	10.0
Viscosity at 40°C	cSt	2.7	2.0 4.5
Water content	ppm	5247	200
Pollution/additives:		EN 590	Min Max
Al: Aluminium content	ppm	3	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	4	10.0
Fungi		0	
Bacteria		0	
Insolubles	mg/kg	139	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 Class D max -10°C Class E max -15°C Class F max -20°C

26.05.23 S003

System:	DIESEL	<b>Labocodenbr:</b>	<b>109830-NRf9</b>
Sump Capacity:	?	Labelnumber:	00706114
Lubricant:	FUEL GNR		12.05.23
Your ref.:	F/347357/13630/PTS1600	Analysis date:	26.05.23

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:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Black particles:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Rust particles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Silicon:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fibers:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Weldings:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plastics:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Copper:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Polymers:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
yellow particles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Final judgement:** Normal Moderate High**Diagnostic:**