Alpha Maintenance Systems

αMS

Oil analysis lab

Analysis Report

B7198/BX3005 MAINT.1

System:	DIESEL	Customer:	NV/SA BOBININDUS POWER SYSTEMS
Sump Capacity:	?		
Fuel type	DIESEL EN 590	Address:	RIJKSWEG 77
Labocodenbr:	117487-AAf9		
Samplenumber:	27.09.23 T003		B-2870 PUURS
Labelnumber:	000000422079		
Date sample drawn:	9.09.2023	Your customer:	B7198/BX3005 MAINT.1
Sampling:	by client	Your ref.:	20230728

Diagnostic

Appearance : bright red. There is a visual precipitation. For the insolubles (based on EN12662), 319 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 and yellow particles, silicon particles and fibres. No bacteria or fungi present in the fuel.

Action

Results:		Current sample			27.09.23 T003
Analysis date		27/09/2023			
Sample date		9/09/2023			
Fuel condition:			EN 590	Min	Max
Density	kg/m³			820.0	845.0
Visual		red			
S: Sulfur content	ppm	7.98			10.0
Viscosity at 40°C	cSt	2.8		2.0	4.5
Water content	ppm	33			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	60			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

*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.*

Alpha MS - Bergensesteenweg 713 - 1600 Sint-Pieters-Leeuw - Belgium - Tel.: 00 32 2 365 02 29 - Fax.: 00 32 2 361 34 58.

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Microscopical analysis

B7198/BX3005 MAINT.1

27.09.23 T003

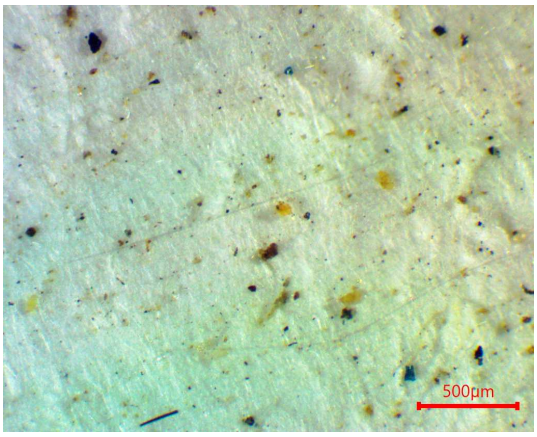
System:	DIESEL	**Labocodenbr:**	**117487-AAf9**
Sump Capacity:	?	Labelnumber:	000000422079
Lubricant:	DIESEL EN 590	Samplenumber:	09.09.23
Your ref.:	20230728	Analysis date:	27.09.23

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:	☑	☐	☐	☐
yellow particles	☐	☐	☐	☑

Final judgement:

☐ Normal ☐ Moderate ☑ High



Diagnostic:

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