



**ANAC references :**  
**Your references :**  
 Vehicle:  
 Component: Diesel engine



**Make and type:**

Vehicle:

Component:

Diagnosis date: 24 april 2019

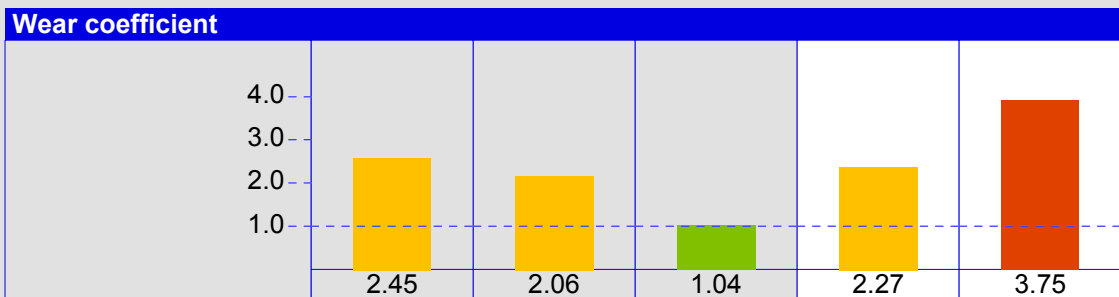
Oil :

	PRO	PRO	PRO	TRANSPORT	TRANSPORT
Sample date	27-JUL-12	26-SEP-13	22-MAY-15	08-FEB-17	04-FEB-19
Sample Number	2737067	2915774	3154131	3236004	3551754
Working time	127175 K	167732 K	201076 K	45133 K	74610 K
Mileage oil	45376 K	40557 K	32476 K	45133 K	74610 K

Wear		PRO	PRO	PRO	TRANSPORT	TRANSPORT
Iron	ppmc	51	61	17	27	53
Lead	ppmc	25	19	4	20	47
Copper	ppmc	4	3	20	17	7
Tin	ppmc	1	< 1	3	2	2
Chromium	ppmc	3	3	1	2	4
Aluminium	ppmc	5	4	3	2	2
Nickel	ppmc	< 1	< 1	< 1	< 1	< 1

Contamination		PRO	PRO	PRO	TRANSPORT	TRANSPORT
Si-Foreign	ppm	10	13	16	8	11
Soot	%	0.1	0.3	0.0	0.2	0.6
Water	%	OK	OK	0.10	OK	OK
Cooling liq.		OK	OK	OK	OK	***
Fuel	%	8.7	10.5	OK	OK	OK

Oil		PRO	PRO	PRO	TRANSPORT	TRANSPORT
Visc. 100°C	mm2/s	10.0	10.4	13.0	14.3	13.8
Sulph. Ash	%	1.5	1.5	1.2	1.2	1.7
IR oxi meas	A/cm				31.1	40.6
IR oxi net	A/cm				13.1	22.6



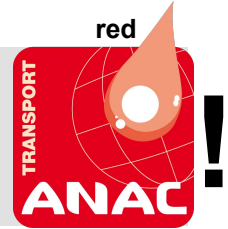


**ANAC references : TERD -684 ---1**

**Your references :**

Vehicle: TEST TRANSPORT

Component: Diesel engine



**Make and type:**

Vehicle: .....

Component: .....

TOTAL BELGIUM NV-SA / ANAC / BE-ERTVELDE

Diagnosis date: 24 april 2019

Oil : Total Rubia Tir 8600 10W40

**Comments**

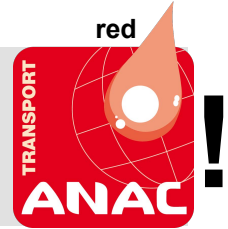
- \*\*\* Attention : The measured values of certain elements strongly suggest that there is cooling liquid contamination in the oil.
- Important increase of oxidation in comparison with the indicated oil type.
- The presence of cooling liquid in the oil can have a corrosive impact on the bearings with possible risk for engine failure.
- Control the tightness of the coolant circuit
- The oil change was justified.

**Remarks**

- The results of the diagnoses from before the intervention on the part, are shown on a gray background.
- To allow a more precise diagnosis we ask you to note the correct engine type on the appropriate form.
- Please refer to the enclosed CAPS sheet



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Oil :

**C. A. P. S.**

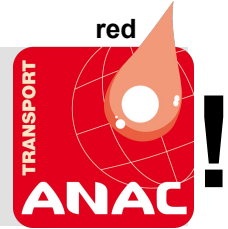
Customer Assisted Prognosis System:

Based on the feedback from our customers, the percentage probability of the possible causes of this red diagnosis was calculated.

Possible causes	Prob
• Presence of cooling liquid in the oil, so possible leakage in the cooling system.	94 %
<b>Evaluation</b>	
DEGREE OF IMPORTANCE 	
<b>Comments</b>	
<ul style="list-style-type: none"> <li>• Possible causes of internal leakage of cooling liquid: e.g. (as far as present on this engine) cylinder head gasket, oil cooler, o-rings of cylinder liners, water pump, compressor...</li> <li>• Wear of iron based parts, e.g. cylinder liners, piston rings, camshaft, etc...</li> <li>• Wear of lead based parts, e.g. the bearings.</li> </ul>	
<b>General comments</b>	
• A successful intervention is not always followed by a green diagnosis. In some cases the improvement of the results is not immediate.	
Please always contact your ANAC consultant before repairing or dismantling the engine. Because the engine type was not stated, we assumed that it was a water cooled engine.	



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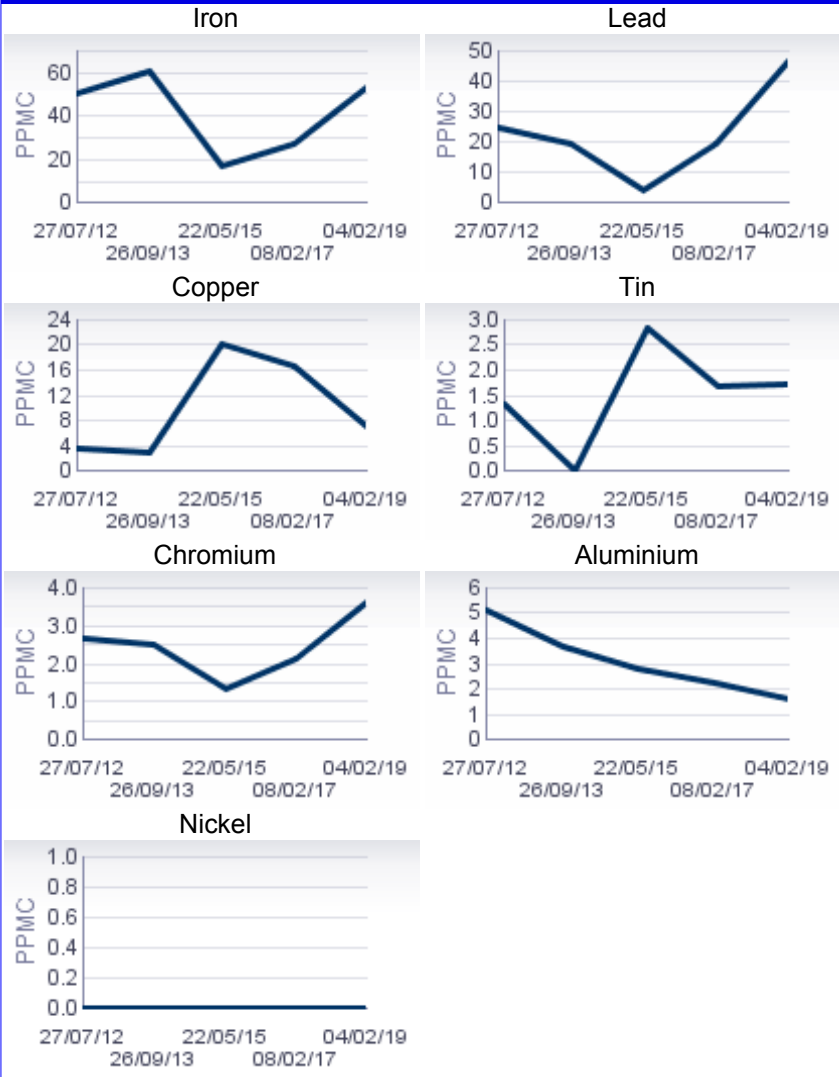
Vehicle:

Component:

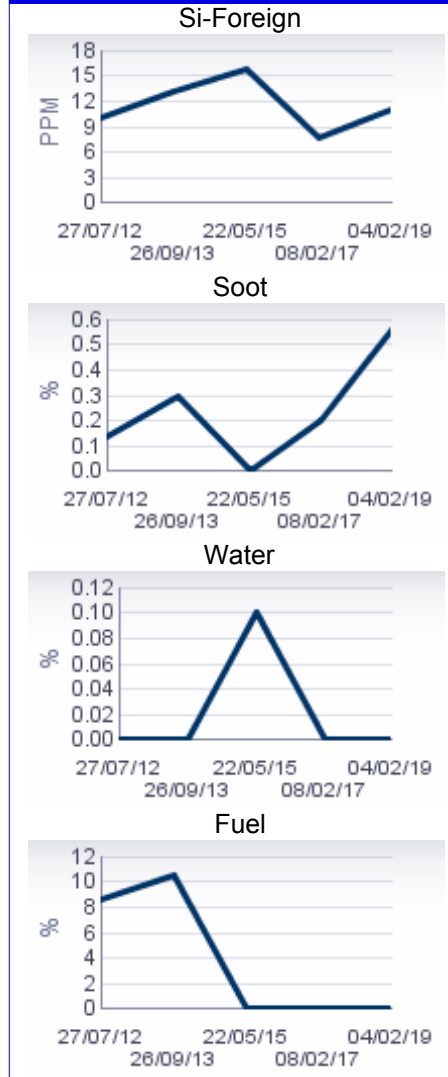
Diagnosis date: 24 april 2019

Oil :

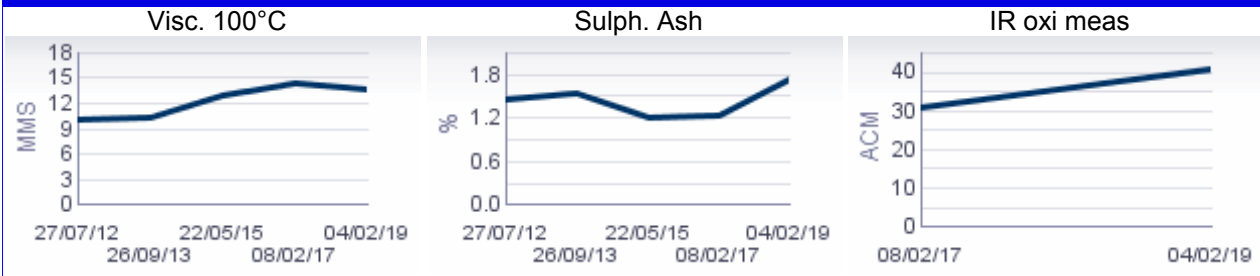
**Wear**



**Contamination**

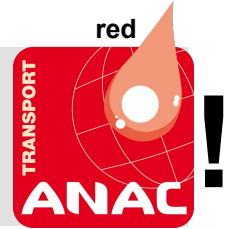


**Oil**





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Diagnosis date: 24 april 2019

Oil :

