



ANAC references : FFVD --16 ---1

Your references :

Vehicle: P2110012

Component: Diesel engine



Make and type:

Vehicle: XXXX

Component: XXXX

TOTAL SPECIMEN / ZZ

Diagnosis date: 14 march 2014

Oil : Total Rubia Tir 7400 15W40

	EXPERT	EXPERT	EXPERT	EXPERT	EXPERT
Sample date	15-MAR-10	14-FEB-11	21-MAR-12	18-OCT-13	05-FEB-14
Sample Number	60023452	60033891	60087880	60105688	60133230
Working time	7051 H	8042 H	9012 H	10027 H	11089 H
Mileage oil	1000 H	1000 H	1000 H	1000 H	1000 H

Wear						
Iron	ppm	30	18	4	4	6
Lead	ppm	7	3	1	2	15
Copper	ppm	9	2	5	5	190
Tin	ppm	4	< 1	< 1	< 1	< 1
Chromium	ppm	1	< 1	< 1	< 1	< 1
Aluminium	ppm	4	5	2	2	1
Nickel	ppm	< 1	< 1	< 1	< 1	< 1

Contamination						
Si-Foreign	ppm	6	6	4	2	2
Soot	%	0.4	0.4	0.2	0.0	0.0
Water	%	OK	OK	<0.07	OK	OK
Cooling liq.		OK	OK	OK	OK	***
Fuel	%	OK	OK	OK	OK	3.4

Oil						
B.N.	mgKOH/g	8.3	8.5	11.2	10.7	11.3
Visc. 40°C	mm2/s	95.7	91.9	107.4	103.7	103.3
Visc. 100°C	mm2/s	13.2	12.8	14.3	13.8	14.0
Visc. Index		137	136	136	134	137
Sulph. Ash	%	1.0	1.0	1.2	1.3	1.2
IR oxi meas	A/cm	19.5	18.7	22.5	18.7	20.4
IR oxi net	A/cm	2.5	1.5	3.5	0.0	0.0

Interpretation of the diagnosis

- *** Attention : The measured values of certain elements strongly suggest that there is cooling liquid contamination in the oil.
- This pollution increases the wear.
- Metal content too high.
- Control the tightness of the coolant circuit
- Make a control sample after intervention