



OIL REPORT

LAB NUMBER: H18612

UNIT ID: MERCEDES

REPORT DATE: 12/2/2015

CLIENT ID: 59862

CODE: 20/685

PAYMENT: PayPal

UNIT

MAKE/MODEL: Mercedes Benz 2.2L I4 (OM646)
FUEL TYPE: Diesel
ADDITIONAL INFO: W204 C220 CDI

OIL TYPE & GRADE: Mobil 1 New Life 0W/40
OIL USE INTERVAL: 17,000 KM

CLIENT

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COMMENTS

NIKOLAOS: This was a shorter oil change than the last so it's nice to see that iron has improved so much. Some of the improvement is due to the shorter run, but it looks like this Mercedes is actually making less iron per km than it was. That's great. Insolubles are way down, so oil filtration is excellent. Silicon looks great too, showing very good air filtration. No fuel or water contamination was found. The TBN read strong, so you should be able to go back to 20,000 km without a problem. Looking good!

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	17,000	UNIT / LOCATION AVERAGES	20,178	20,000	13,200	18,700	13,800	UNIVERSAL AVERAGES
	MI/HR on Unit	597,196		544,845	524,667	504,667	445,532	426,832	
	Sample Date	6/11/2015		10/31/2014	7/15/2014	3/16/2014	3/17/2013	12/10/2012	
	Make Up Oil Added	500 ml		0 qts	0 qts	0 qts	250 ml		
	ALUMINUM	3	4	5	5	4	4	5	6
	CHROMIUM	1	2	2	2	1	3	2	2
	IRON	26	45	59	47	34	67	35	38
	COPPER	4	7	8	8	7	8	5	6
	LEAD	0	0	0	0	0	0	0	0
	TIN	1	1	0	1	0	1	0	1
	MOLYBDENUM	76	72	10	9	26	158	156	43
	NICKEL	0	0	0	0	0	0	0	0
	MANGANESE	0	0	0	0	0	1	0	0
	SILVER	0	0	0	0	0	0	0	0
	TITANIUM	0	0	0	0	0	0	0	0
	POTASSIUM	5	3	6	0	3	2	1	142
	BORON	131	57	42	21	37	56	54	130
	SILICON	7	8	14	9	7	6	5	8
	SODIUM	2	5	5	3	3	7	8	5
	CALCIUM	3000	1961	2498	1365	1456	1695	1752	2049
	MAGNESIUM	13	10	13	6	8	11	7	159
	PHOSPHORUS	870	707	815	536	576	710	735	715
	ZINC	948	846	992	679	690	876	890	830
	BARIUM	0	0	0	0	0	0	0	0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	75.8	65-75	70.4	68.5	67.1	74.3	67.2
	cSt Viscosity @ 100°C	14.45	11.6-14.5	13.05	12.56	12.19	14.08	12.21
	Flashpoint in °F	430	>385	455	425	475	430	455
	Fuel %	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5
	Antifreeze %	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Water %	0.0	<0.1	0.0	0.0	0.0	0.0	0.0
	Insolubles %	0.1	<0.6	0.4	0.5	0.3	0.4	0.4
	TBN	7.8	>1.0	5.6	2.7	3.0	2.3	2.3
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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