

Customer Information

Unit # : 2012 AMG C63
 Component : ENGINE
 Location :
 Unit Mfr/Model :
 Unit Serial # :
 Comp Mfr/Model : MERCEDES-BENZ / C63
 Comp Serial # :

Equipment Information

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 Component : ENGINE
 Location :
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 Unit Serial # :
 Comp Mfr/Model : MERCEDES-BENZ / C63
 Comp Serial # :

Lubricant

Manufacturer : SHELL
 Brand : ROTELLA T6
 Grade : 5W40
 Sample # : 2020/02/18-600
 Lab Tracking # : 3 - 859240

FLUID LIFE
 EQUIPMENT RELIABILITY SERVICES

Oil Analysis

95 Copernicus Boulevard, Brantford
 Ontario, Canada N3P 1N4
 Phone: 877 962 2400

Sample Number	Sample Date	Contaminants ppm			Wear Metals ppm										Additives ppm										
		Sodium	Potassium	Silicon	Aluminum	Iron	Copper	Lead	Tin	Chromium	Nickel	Titanium	Silver	Vanadium	Antimony	Beryllium	Calcium	Zinc	Phosphorus	Magnesium	Molybdenum	Boron	Barium	Lithium	
Ref. Sample	2019/03/18	3	1	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
02/18-600	2020/02/11	2	2	4	2	6	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05/23-060	2019/05/05	3	2	5	3	10	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/07-240	2017/10/29	3	0	4	2	12	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02/15-012	2017/01/31	4	2	6	4	19	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12-272	2015/11/01	1	4	5	8	22	6	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/29-243	2015/04/26	3	11	7	16R	43	11	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Sample Information

Sample Date	Oil Mfr.	Oil Brand	Oil Grade	Comp. Service	Oil Service	Units	Oil Chg	Visc 40°C cSt	Visc 100°C cSt	Visc Index	Water	Glycol %	Fuel %	NIT (Alcm)	OX (Alcm)	Sul (Alcm)
Ref. Sample	SHE	ROT T6	5W40	~40727	1082	KM	N	84.4	14.00	171	N	NT	NT	6.64	1.35	<0.10
2020/02/11	SHE	ROT T6	5W40	39645	4997	KM	Y	85.5	14.20	172	N	NT	NT	12.1	2.05	5.52
2019/05/05	SHE	ROT T6	5W40	34680	3111	KM	N	74.6	13.00	177	N	NT	NT	11.6	5.05	6.28
2017/10/29	SHE	ROT T6	5W40	31568	4578	KM	Y	72.1R	12.41R	172	PU	NT	1.04	15.3	6.40	6.93
2017/01/31	MB	ROT T6	5W40	26990	3905	KM	N	77.1	12.65	164	N	NT	<0.60	-	-	-
2015/1/01	MOB	ROT T6	5W40	22999	2059	KM	N	68.2R	12.06R	175	PR	NT	2.06R	-	-	-

Physical Tests

Tested wear and contamination levels are within acceptable limits.
 Oil analysis results for this sample (as well as the last sample at ~5000 km) have been well within acceptable limits for wear and oil condition. This would suggest a 5000km interval for oil changes is acceptable. A longer interval may be possible, but would require more frequent testing at extended oil usage to determine how long the interval could be extended.

- 2019/05/05 Tested wear and contamination levels are within acceptable limits.
- 2017/10/29 Tested wear and contamination levels are within acceptable limits.
- 2017/01/31 Note Water, Viscosity at 40°C and Viscosity at 100°C.
- 2015/1/01 Tested wear and contamination levels are within acceptable limits.
- 2015/04/26 Note Fuel, Water, Viscosity at 40°C and Viscosity at 100°C and flagged element Aluminum.

Results

Recommendations

- 2020/02/11 Resample next interval to monitor. Notes: SHOULD THE OIL BE CHANGED AT LOW KM, 1 YEAR ?
- 2019/05/05 Resample next interval to monitor.
- 2017/10/29 Resample next interval to monitor.
- 2017/01/31 Water contamination can be detrimental to any component. Check or assess system for source of contamination. Verify oil type. Make sure oil meets manufacturers specifications. Resample mid - interval to monitor.
- 2015/1/01 Resample next interval to monitor.
- 2015/04/26 Assess all causes of viscosity dilution - fuel leak, excess idling, wrong lube used, sample

Key: Y - Yes N - Negative P - Positive R - Reportable U - Unacceptable S - Severe I - Insufficient Sample > - More Than < - Less Than NT - Not Triggered ~ - Updated ~ - Lab Estimated