



OIL REPORT

LAB NUMBER:
 REPORT DATE: 2/5/2020
 CODE: 1/685

UNIT ID:
 CLIENT ID:
 PAYMENT:

UNIT	EQUIP. MAKE/MODEL: Mercedes Benz 2.0L Turbo M270/M278	OIL TYPE & GRADE: 5W/40
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 4,300 Miles
	ADDITIONAL INFO:	

CLIENT	PHONE:
	FAX:
	ALT PHONE:
	EMAIL:

COMMENTS This young Mercedes looks great at just over 10,000 miles. The first look at internal engine wear shows oil-sharing parts in good health, since metals are all at or below the universal average levels. Those show typical wear for the 2.0 L turbo engine after ~7,400 miles of oil use. Your oil wasn't run for quite as long, so it makes sense that iron would be a little lower (it tends to track most with oil use). Other metals are close to averages, and that's fine. No contamination is present, and the 7.3 TBN shows the oil still had active additive left at the time of sampling.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	4,300	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit	10,700						
	Sample Date	1/26/2020						
	Make Up Oil Added	0 qts						
ALUMINUM	2	2					3	
CHROMIUM	0	0					0	
IRON	9	7					13	
COPPER	4	2					3	
LEAD	0	0					0	
TIN	0	0					0	
MOLYBDENUM	1	1					57	
NICKEL	0	0					0	
MANGANESE	1	0					1	
SILVER	0	0					0	
TITANIUM	2	1					1	
POTASSIUM	0	1					2	
BORON	11	42					92	
SILICON	9	9					13	
SODIUM	3	4					5	
CALCIUM	2752	2718					2397	
MAGNESIUM	17	15					104	
PHOSPHORUS	797	882					841	
ZINC	886	972					948	
BARIUM	0	0					0	

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	68.8	65-78				
	cSt Viscosity @ 100°C	12.64	11.6-15.3				
	Flashpoint in °F	390	>385				
	Fuel %	<0.5	<2.0				
	Antifreeze %	0.0	0.0				
	Water %	0.0	0.0				
	Insolubles %	0.1	<0.6				
	TBN	7.3	>1.0				
	TAN						
ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

416 E. PETTIT AVE. FORT WAYNE, IN 46806 (260) 744-2380 www.blackstone-labs.com