

PROBLEM SUMMARY

Sample Rating Trend

GLYCOL

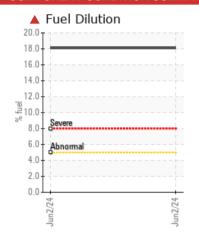
Machine Id

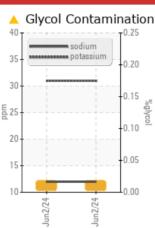
MERCEDES-BENZ WD3BE8DC3E5894576

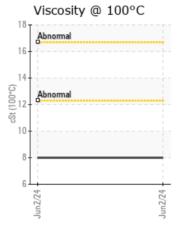
Front Diesel Engine

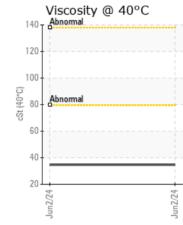
{not provided} (12 LTR)











RECOMMENDATION

We advise that you check the fuel injection system. We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE				
Potassium	ppm	ASTM D5185(m)	>20	<u></u> 431				
Fuel	%	ASTM D7593*	>5	18.1				
Glycol	%	ASTM D7922*		△ 0.018				

Customer Id: MER268MIS Sample No.: WC486645 Lab Number: 02641580 Test Package: INS



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Fluid			?	We recommend that you drain the oil from the component if this has not already been done.		
Flush System			?	We advise that you flush the component thoroughly before re-filling with oil.		
Resample			?	We recommend an early resample to monitor this condition.		
Information Required			?	Please specify the brand, type, and viscosity of the oil on your next sample.		
Check Fuel/injector System			?	We advise that you check the fuel injection system.		
Check Glycol Access			?	We advise that you check for the source of the coolant leak.		

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

MERCEDES-BENZ WD3BE8DC3E5894576

Front Diesel Engine

Fluid

{not provided} (12 LTR)

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear Particles

The filter contained no appreciable wear particles. All filter wear levels are normal. The wear metal levels do not reflect the reported failure.

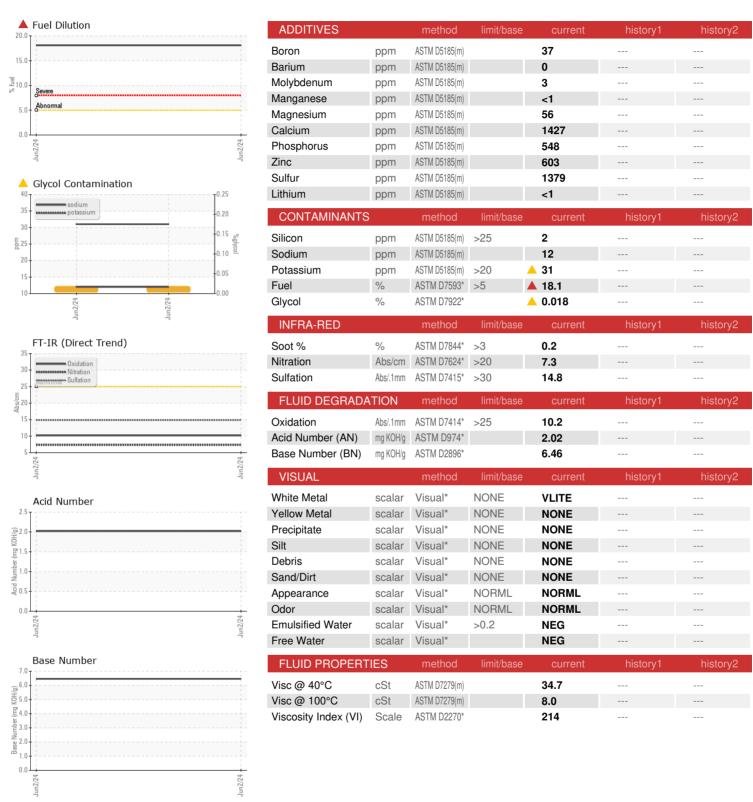
Contaminants

Test for glycol is positive. There is a high amount of fuel present in the oil. There is a light concentration of glycol present in the oil. Tests confirm the presence of fuel in the oil.

				Jun 2024			
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		mma bacc	WC486645	· ·	·	
Sample Number		Client Info		02 Jun 2024			
Sample Date	kms	Client Info		164402			
Machine Age Oil Age	kms	Client Info		0			
Oil Changed	KIIIS	Client Info		N/A			
Sample Status		Ciletit iiiio		SEVERE			
·							
CONTAMINATION	١	method	limit/base	current	history1	history2	
Water		WC Method	>0.2	NEG			
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>100	33			
Chromium	ppm	ASTM D5185(m)	>20	<1			
Nickel	ppm	ASTM D5185(m)	>50	<1			
Titanium	ppm	ASTM D5185(m)	>2	<1			
Silver	ppm	ASTM D5185(m)	>2	0			
Aluminum	ppm	ASTM D5185(m)	>50	4			
Lead	ppm	ASTM D5185(m)	>40	2			
Copper	ppm	ASTM D5185(m)	>330	4			
Tin	ppm	ASTM D5185(m)	>15	0			
Antimony	ppm	ASTM D5185(m)		0			
Vanadium	ppm	ASTM D5185(m)		0			
Beryllium	ppm	ASTM D5185(m)		0			
Cadmium	ppm	ASTM D5185(m)		0			
FERROGRAPHY		method	limit/base	current	history1	history2	
Ferrous Rubbing	Scale 0-10	ASTM D7684*		1			
Ferrous Sliding	Scale 0-10	ASTM D7684*					
Ferrous Cutting	Scale 0-10	ASTM D7684*					
Ferrous Rolling	Scale 0-10	ASTM D7684*		1			
Ferrous Break-in	Scale 0-10	ASTM D7684*					
Ferrous Spheres	Scale 0-10	ASTM D7684*					
Ferrous Black Oxides	Scale 0-10	ASTM D7684*					
Ferrous Red Oxides	Scale 0-10	ASTM D7684*					
Ferrous Corrosive	Scale 0-10	ASTM D7684*					
Ferrous Other	Scale 0-10	ASTM D7684*					
Nonferrous Rubbing	Scale 0-10	ASTM D7684*					
Nonferrous Sliding	Scale 0-10	ASTM D7684*					
Nonferrous Cutting	Scale 0-10	ASTM D7684*					
Nonferrous Rolling	Scale 0-10	ASTM D7684*					
Nonferrous Other	Scale 0-10	ASTM D7684*					
Sand/Dirt	Scale 0-10	ASTM D7684*		1			
Fibres	Scale 0-10	ASTM D7684*		1			
Spheres	Scale 0-10	ASTM D7684*					
Other	Scale 0-10	ASTM D7684*		1			
Patch Weight	mg	ASTM D7684*		2			



OIL ANALYSIS REPORT







Report Id: MER268MIS [WCAMIS] 02641580 (Generated: 06/18/2024 17:05:18) Rev: 1

Laboratory Sample No.

Lab Number Unique Number : 5799119

: 02641580

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC486645

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Received : 13 Jun 2024 **Tested** : 17 Jun 2024 Diagnosed

2680 Matheson Blvd E, Suit 500 Mississauga, ON CA L4W 0A5

Mercedes Benz Canada

: 18 Jun 2024 - Kevin Marson Test Package: INS (Additional Tests: FT-IR, FuelDilution, Glycol, PercentFuel, TAN Man, VContact: Greg Bebbington To discuss this sample report, contact Customer Service at 1-800-268-2131. gregory.bebbington@mercedes-benz.ca T:

Validity of results and interpretation are based on the sample and information as supplied.

Contact/Location: Greg Bebbington - MER268MIS

F:



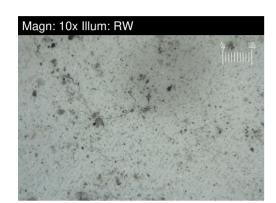
FILTER REPORT

Machine Id

MERCEDES-BENZ WD3BE8DC3E5894576

Front Diesel Engine

{not provided} (12 LTR)





FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	ASTM D7684*		1		
Ferrous Sliding	Scale 0-10	ASTM D7684*				
Ferrous Cutting	Scale 0-10	ASTM D7684*				
Ferrous Rolling	Scale 0-10	ASTM D7684*		1		
Ferrous Break-in	Scale 0-10	ASTM D7684*				
Ferrous Spheres	Scale 0-10	ASTM D7684*				
Ferrous Black Oxides	Scale 0-10	ASTM D7684*				
Ferrous Red Oxides	Scale 0-10	ASTM D7684*				
Ferrous Corrosive	Scale 0-10	ASTM D7684*				
Ferrous Other	Scale 0-10	ASTM D7684*				
Nonferrous Rubbing	Scale 0-10	ASTM D7684*				
Nonferrous Sliding	Scale 0-10	ASTM D7684*				
Nonferrous Cutting	Scale 0-10	ASTM D7684*				
Nonferrous Rolling	Scale 0-10	ASTM D7684*				
Nonferrous Other	Scale 0-10	ASTM D7684*				
Sand/Dirt	Scale 0-10	ASTM D7684*		1		
Fibres	Scale 0-10	ASTM D7684*		1		
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*		1		
Patch Weight	mg	ASTM D7684*		2		

WEAR

The filter contained no appreciable wear particles. All filter wear levels are normal. The wear metal levels do not reflect the reported failure.

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