



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	ABNORMAL

Machine Id  
**MERCEDES-BENZ MERCEDES CLS63**  
 Component  
**Front Gasoline Engine**  
 Fluid  
**MOBIL DELVAC 1 5W40 (9 LTR)**

## RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0931991	---	---
Sample Date		Client Info		15 Apr 2024	---	---
Machine Age	kms	Client Info		113573	---	---
Oil Age	kms	Client Info		4941	---	---
Filter Age	kms	Client Info		4941	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>150	23	---	---
Chromium	ppm	ASTM D5185(m)	>20	<1	---	---
Nickel	ppm	ASTM D5185(m)	>5	0	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>2	0	---	---
Aluminum	ppm	ASTM D5185(m)	>40	6	---	---
Lead	ppm	ASTM D5185(m)	>50	0	---	---
Copper	ppm	ASTM D5185(m)	>155	1	---	---
Tin	ppm	ASTM D5185(m)	>10	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

## CONTAMINATION

Light fuel dilution occurring.

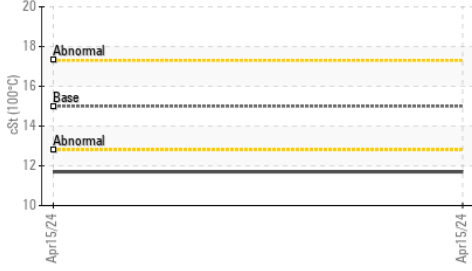
Silicon	ppm	ASTM D5185(m)	>30	8	---	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---	---
Fuel	%	ASTM D7593*	>4.0	▲ 2	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*		0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	13.1	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.8	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---

## FLUID CONDITION

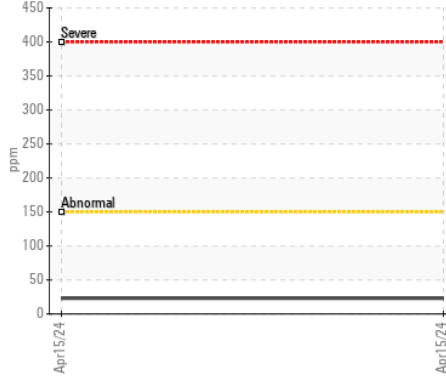
Fuel is present in the oil and is lowering the viscosity. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>400	3	---	---
Boron	ppm	ASTM D5185(m)	291	123	---	---
Barium	ppm	ASTM D5185(m)	0.0	0	---	---
Molybdenum	ppm	ASTM D5185(m)	8.0	118	---	---
Manganese	ppm	ASTM D5185(m)		<1	---	---
Magnesium	ppm	ASTM D5185(m)	624	161	---	---
Calcium	ppm	ASTM D5185(m)	2158	2369	---	---
Phosphorus	ppm	ASTM D5185(m)	1132	822	---	---
Zinc	ppm	ASTM D5185(m)	1300	943	---	---
Sulfur	ppm	ASTM D5185(m)	3616	2257	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.4	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	▲ 11.7	---	---

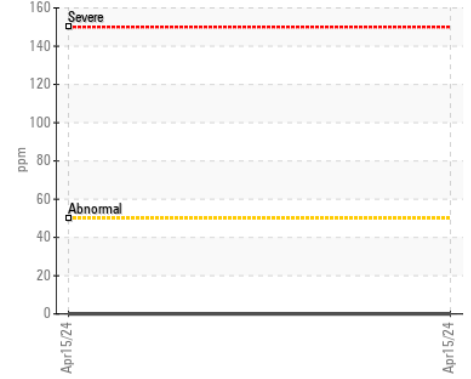
▲ Viscosity @ 100°C



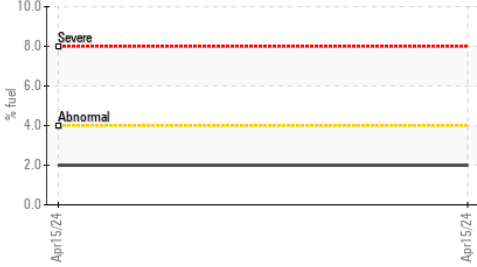
Iron (ppm)



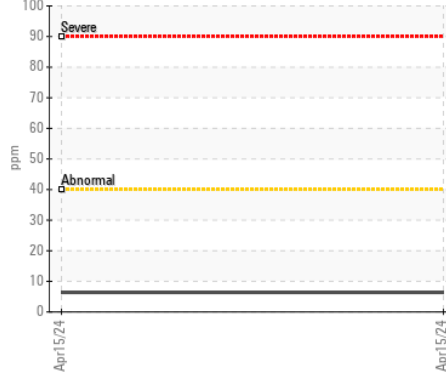
Lead (ppm)



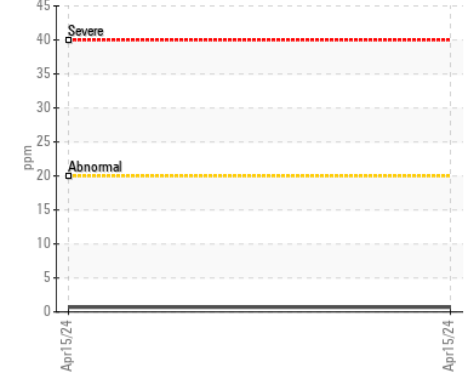
▲ Fuel Dilution



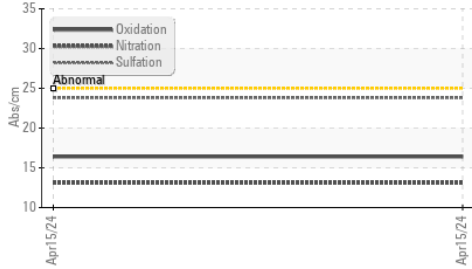
Aluminum (ppm)



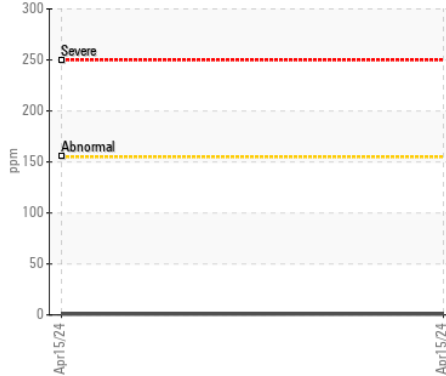
Chromium (ppm)



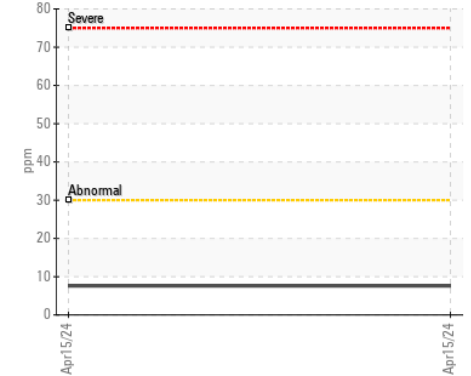
FT-IR (Direct Trend)



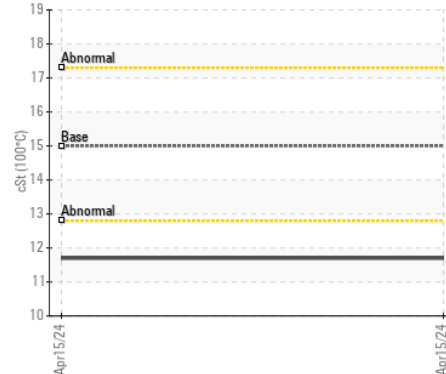
Copper (ppm)



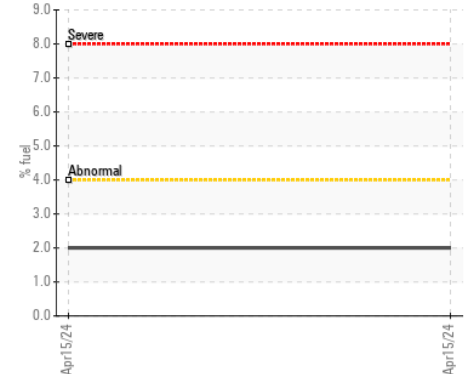
Silicon (ppm)



▲ Viscosity @ 100°C



▲ Fuel Dilution



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0931991 **Received** : 17 Apr 2024  
**Lab Number** : 02629434 **Tested** : 18 Apr 2024  
**Unique Number** : 5762566 **Diagnosed** : 18 Apr 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, PercentFuel )

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.

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