



# OIL ANALYSIS REPORT

Area  
**GUAY SON/YAVAROS [CONHER]**  
 Machine Id  
**CATERPILLAR Barda III MP - Flota Barda**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL 15W40 (420 LTR)**

## Sample Rating Trend



ISO



### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is a moderate amount of particulates present in the oil.

#### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

### SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>KL0012358</b>	---	---
Sample Date	Client Info	<b>06 Feb 2023</b>	---	---
Machine Age	hrs	Client Info	<b>4500</b>	---
Oil Age	hrs	Client Info	<b>800</b>	---
Oil Changed	Client Info	<b>Changed</b>	---	---
Sample Status		<b>ATTENTION</b>	---	---

### CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<b>&lt;1.0</b>	---	---
Glycol	WC Method	<b>NEG</b>	---	---

### WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >100	<b>4</b>	---	---
Chromium	ppm ASTM D5185m >20	<b>&lt;1</b>	---	---
Nickel	ppm ASTM D5185m >2	<b>0</b>	---	---
Titanium	ppm ASTM D5185m >2	<b>0</b>	---	---
Silver	ppm ASTM D5185m >2	<b>0</b>	---	---
Aluminum	ppm ASTM D5185m >25	<b>0</b>	---	---
Lead	ppm ASTM D5185m >40	<b>&lt;1</b>	---	---
Copper	ppm ASTM D5185m >330	<b>3</b>	---	---
Tin	ppm ASTM D5185m >15	<b>&lt;1</b>	---	---
Vanadium	ppm ASTM D5185m	<b>0</b>	---	---
Cadmium	ppm ASTM D5185m	<b>0</b>	---	---

### ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	<b>1</b>	---	---
Barium	ppm ASTM D5185m	<b>2</b>	---	---
Molybdenum	ppm ASTM D5185m	<b>52</b>	---	---
Manganese	ppm ASTM D5185m	<b>0</b>	---	---
Magnesium	ppm ASTM D5185m	<b>846</b>	---	---
Calcium	ppm ASTM D5185m	<b>976</b>	---	---
Phosphorus	ppm ASTM D5185m	<b>994</b>	---	---
Zinc	ppm ASTM D5185m	<b>1120</b>	---	---
Sulfur	ppm ASTM D5185m	<b>4335</b>	---	---

### CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	<b>2</b>	---	---
Sodium	ppm ASTM D5185m >118	<b>3</b>	---	---
Potassium	ppm ASTM D5185m >20	<b>&lt;1</b>	---	---

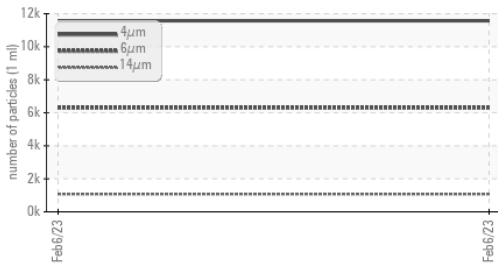
### INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	<b>0.1</b>	---	---
Nitration	Abs/cm *ASTM D7624 >20	<b>6.5</b>	---	---
Sulfation	Abs./1mm *ASTM D7415 >30	<b>18.6</b>	---	---

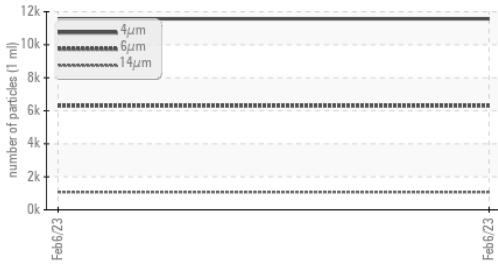


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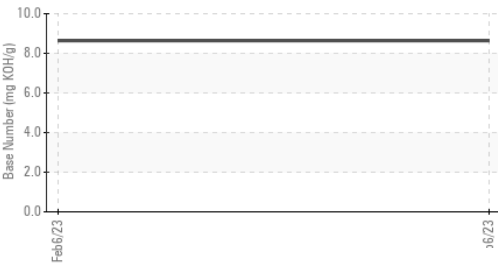
▲ Particle Trend



▲ Particle Trend



Base Number



Viscosity @ 100°C



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>11571</b>	---	---
Particles >6µm	ASTM D7647	>5000	▲ <b>6303</b>	---	---
Particles >14µm	ASTM D7647	>640	▲ <b>1073</b>	---	---
Particles >21µm	ASTM D7647	>160	▲ <b>361</b>	---	---
Particles >38µm	ASTM D7647	>40	▲ <b>56</b>	---	---
Particles >71µm	ASTM D7647	>10	<b>6</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>19/16	▲ <b>20/17</b>	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	<b>13.4</b>	---	---
Base Number (BN)	mg KOH/g ASTM D2896		<b>8.64</b>	---	---

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar *Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar *Visual	NONE	<b>NONE</b>	---	---
Precipitate	scalar *Visual	NONE	<b>NONE</b>	---	---
Silt	scalar *Visual	NONE	<b>NONE</b>	---	---
Debris	scalar *Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar *Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar *Visual	NORML	<b>NORML</b>	---	---
Odor	scalar *Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar *Visual	>0.2	<b>NEG</b>	---	---
Free Water	scalar *Visual		<b>NEG</b>	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt ASTM D445		<b>13.3</b>	---	---

## GRAPHS

Ferrous Alloys



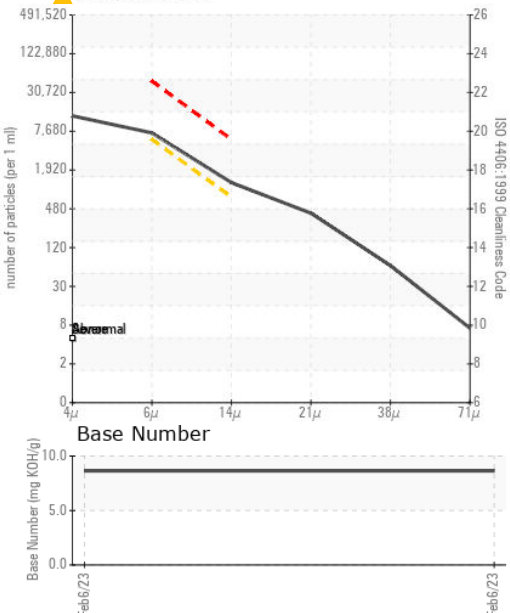
Non-ferrous Metals



Viscosity @ 100°C



▲ Particle Count



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : KL0012358 Received : 10 May 2023  
 Lab Number : 05843501 Diagnosed : 14 May 2023  
 Unique Number : 10467608 Diagnostician : Doug Bogart  
 Test Package : MOB 2 ( Additional Tests: PrtCount )

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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