



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL



Area  
**GUAY SON/Yavaros [CONHER]**  
Machine Id  
**CATERPILLAR Flota Barda - Barda1 Aux**  
Component  
**Diesel Engine**  
Fluid  
**TOTAL FINA RUBIA TIR 7900 15W40 (30 LTR)**

## RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>KL0014575</b>	KL0014118	KL0013394
Sample Date		Client Info		<b>19 Apr 2024</b>	02 Feb 2024	17 Nov 2023
Machine Age	hrs	Client Info		<b>5552</b>	0	3274
Oil Age	hrs	Client Info		<b>0</b>	1	0
Filter Age	hrs	Client Info		<b>0</b>	1	0
Oil Changed		Client Info		<b>N/A</b>	Not Changd	N/A
Filter Changed		Client Info		<b>N/A</b>	Not Changd	N/A
Sample Status				<b>ATTENTION</b>	ABNORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>105	<b>6</b>	7	20
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>3</b>	3	3
Lead	ppm	ASTM D5185m	>15	<b>1</b>	1	1
Copper	ppm	ASTM D5185m	>140	<b>2</b>	2	11
Tin	ppm	ASTM D5185m	>4	<b>1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

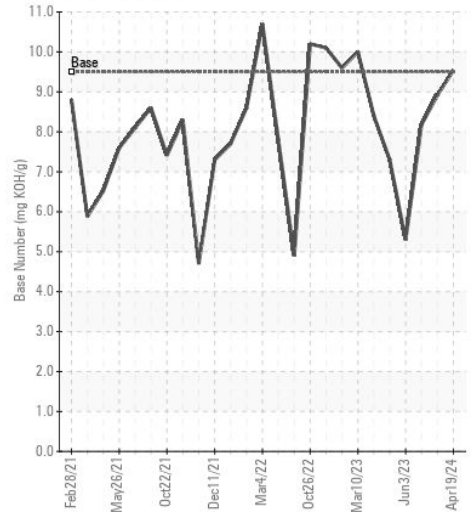
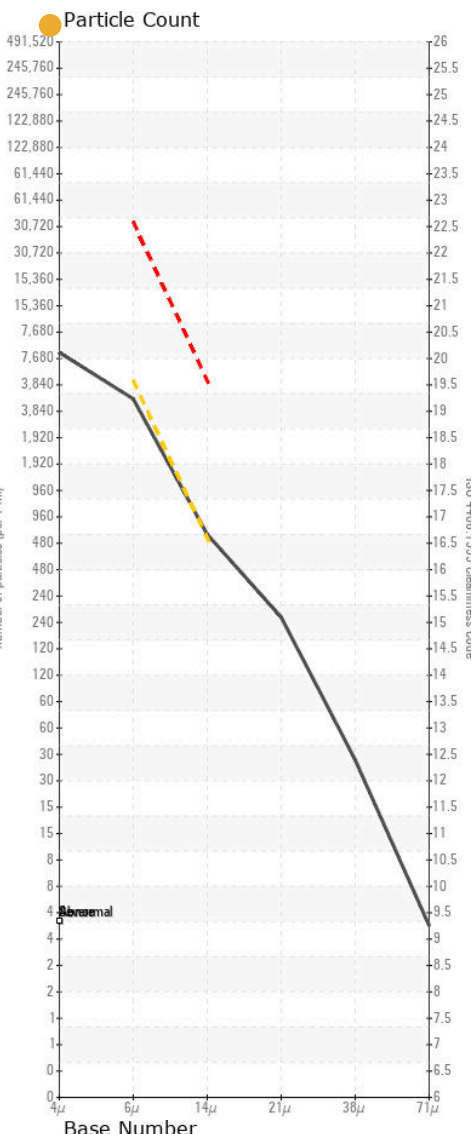
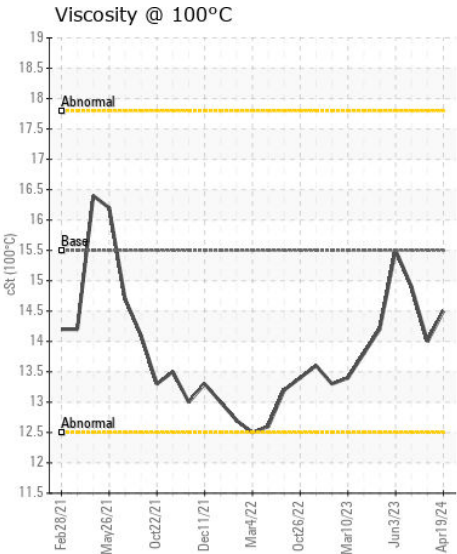
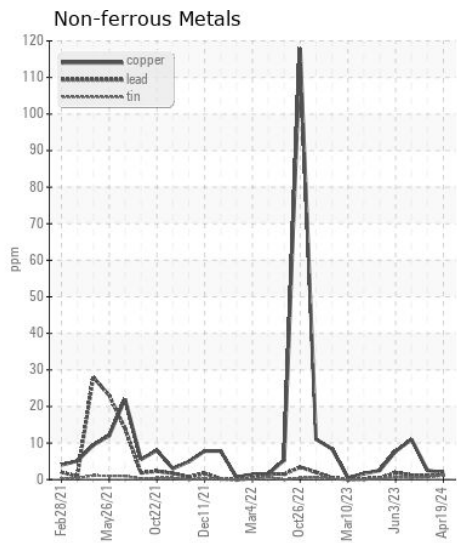
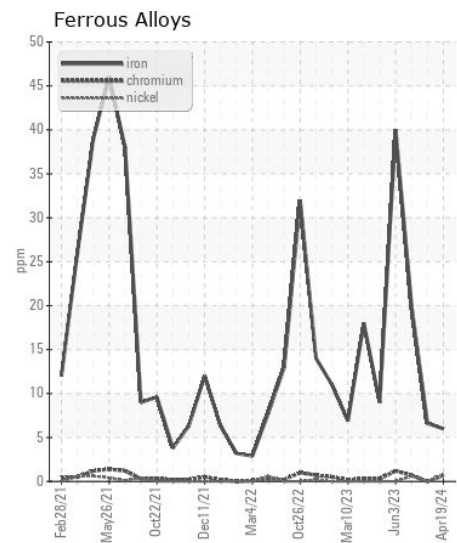
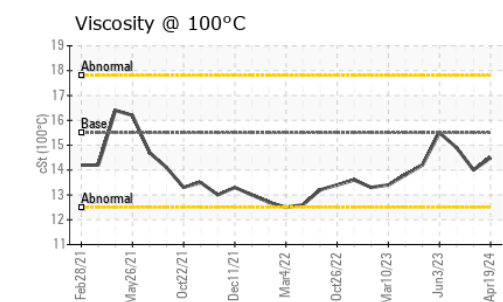
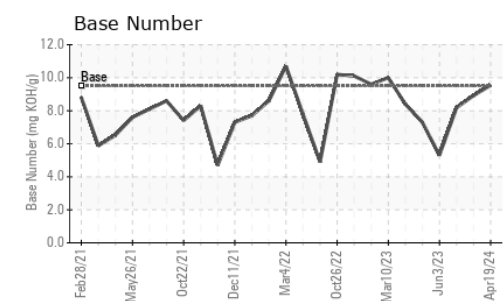
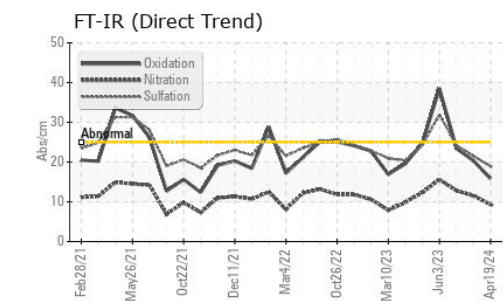
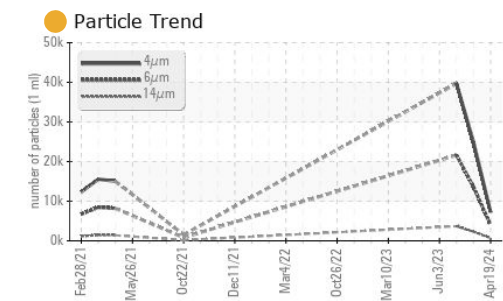
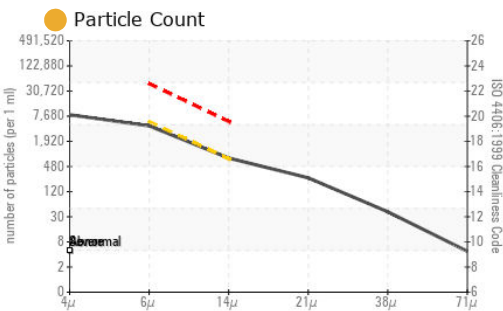
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>7</b>	5	8
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	<1	3
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.1</b>	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.3</b>	11.5	12.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.9</b>	21.5	24.2
Particles >4µm		ASTM D7647		<b>7229</b>	24907	39688
Particles >6µm		ASTM D7647	>5000	<b>3938</b>	▲ 13568	▲ 21620
Particles >14µm		ASTM D7647	>640	<b>670</b>	▲ 2309	▲ 3680
Particles >21µm		ASTM D7647	>160	<b>226</b>	▲ 778	▲ 1239
Particles >38µm		ASTM D7647	>40	<b>35</b>	▲ 120	▲ 191
Particles >71µm		ASTM D7647	>10	<b>4</b>	▲ 12	▲ 20
Oil Cleanliness		ISO 4406 (c)	>19/16	<b>19/17</b>	▲ 21/18	▲ 22/19
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

## 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.

Sodium	ppm	ASTM D5185m		<b>2</b>	2	5
Boron	ppm	ASTM D5185m		<b>101</b>	43	50
Barium	ppm	ASTM D5185m		<b>0</b>	0	1
Molybdenum	ppm	ASTM D5185m		<b>150</b>	95	116
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>47</b>	42	36
Calcium	ppm	ASTM D5185m	3290	<b>3435</b>	2196	2504
Phosphorus	ppm	ASTM D5185m	1200	<b>1684</b>	984	1115
Zinc	ppm	ASTM D5185m	1400	<b>1854</b>	1204	1357
Sulfur	ppm	ASTM D5185m	4000	<b>6506</b>	3270	4167
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.8</b>	20.3	23.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.5	<b>9.54</b>	8.92	8.18
Visc @ 100°C	cSt	ASTM D445	15.5	<b>14.5</b>	14.0	14.9



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0014575 **Received** : 09 May 2024  
**Lab Number** : 06174061 **Tested** : 10 May 2024  
**Unique Number** : 11020114 **Diagnosed** : 12 May 2024 - Don Baldrige  
**Test Package** : MOB 2 ( Additional Tests: PrtCount )

**CONOR**  
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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)