



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area  
**AAAB IRAQ**

Machine Id  
**2000-4182**

Component  
**Genset**

Fluid  
**VALVOLINE PREMIUM BLUE (--- LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0860718</b>	WC0860711	WC0599352
Sample Date		Client Info		<b>07 Jan 2024</b>	07 Dec 2023	20 Oct 2023
Machine Age	hrs	Client Info		<b>9714</b>	9464	9129
Oil Age	hrs	Client Info		<b>250</b>	355	250
Filter Age	hrs	Client Info		<b>250</b>	355	250
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>2</b>	2	0
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>12	<b>2</b>	3	1
Lead	ppm	ASTM D5185m	>17	<b>2</b>	2	<1
Copper	ppm	ASTM D5185m	>70	<b>&lt;1</b>	<1	0
Tin	ppm	ASTM D5185m	>15	<b>&lt;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

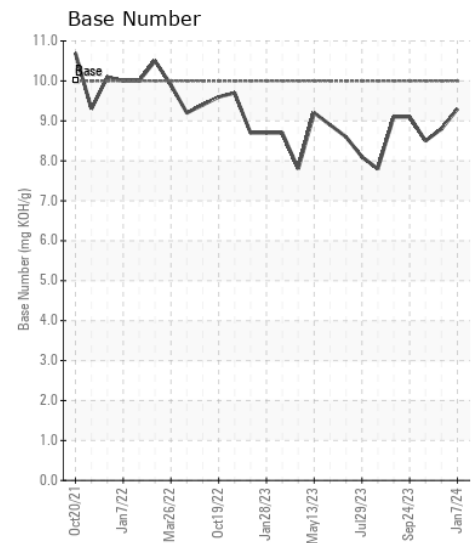
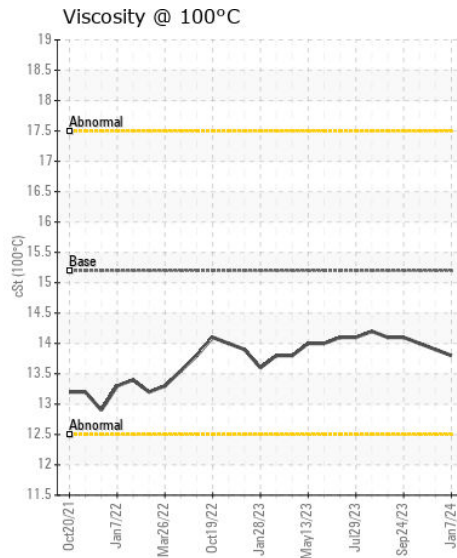
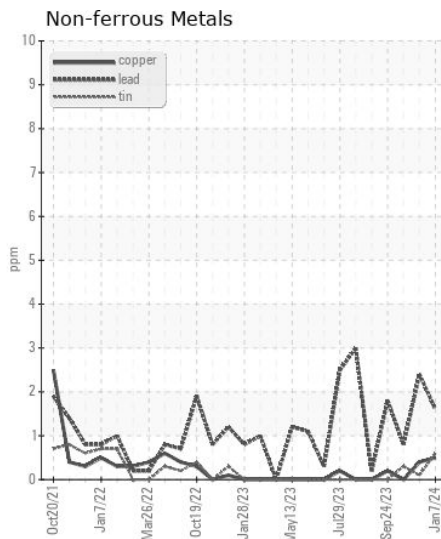
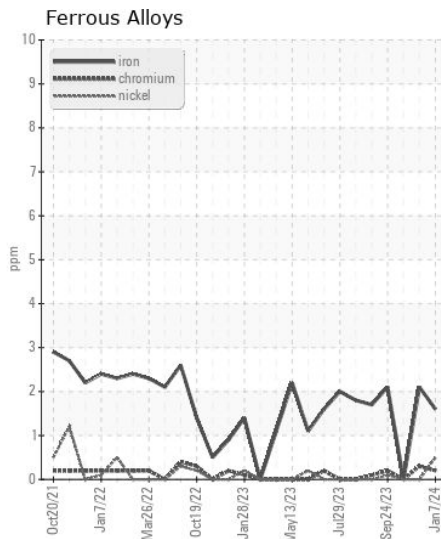
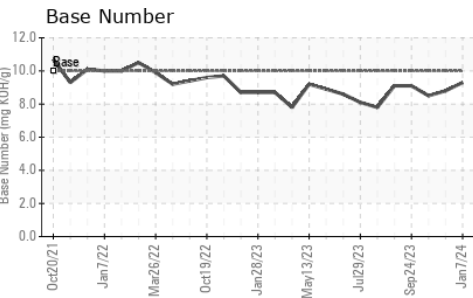
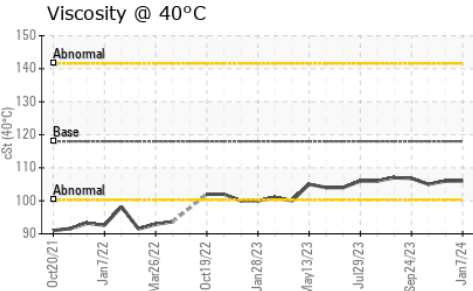
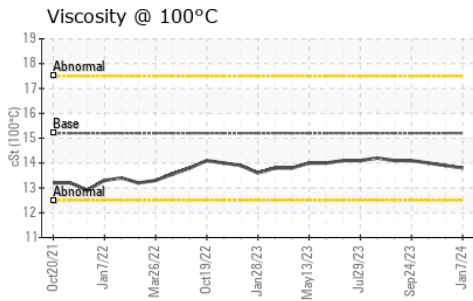
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>4</b>	3	3
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	<1
Fuel		WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0.1</b>	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.2</b>	6.7	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>16.1</b>	16.4	16.1
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	>0.1	<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>0</b>	0	0
Boron	ppm	ASTM D5185m	2.9	<b>74</b>	26	60
Barium	ppm	ASTM D5185m	0.1	<b>13</b>	9	0
Molybdenum	ppm	ASTM D5185m	0.0	<b>36</b>	13	31
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m	18	<b>15</b>	12	16
Calcium	ppm	ASTM D5185m	2936	<b>3466</b>	3497	3297
Phosphorus	ppm	ASTM D5185m	998	<b>942</b>	920	850
Zinc	ppm	ASTM D5185m	1095	<b>1014</b>	1062	1016
Sulfur	ppm	ASTM D5185m	5469	<b>4779</b>	4036	3769
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>10.5</b>	10.3	10.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.0	<b>9.3</b>	8.8	8.5
Visc @ 40°C	cSt	ASTM D445	118	<b>106</b>	106	105
Visc @ 100°C	cSt	ASTM D445	15.2	<b>13.8</b>	13.9	14.0
Viscosity Index (VI)	Scale	ASTM D2270	134	<b>130</b>	131	134



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0860718 **Received** : 12 Feb 2024  
**Lab Number** : 06086640 **Tested** : 13 Feb 2024  
**Unique Number** : 10874085 **Diagnosed** : 13 Feb 2024 - Don Baldrige  
**Test Package** : FLEET ( Additional Tests: KV40, VI )

**CUMMINS - PRIME POWER & IPP STRATEGIC ACCOUNTS**  
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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)