



# OIL ANALYSIS REPORT

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

Area  
**AAAB IRAQ**  
Machine Id  
**2000-4026**  
Component  
**Genset**  
Fluid  
**VALVOLINE PREMIUM BLUE (380 LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0860690</b>	WC0860675	WC0860666
Sample Date		Client Info		<b>23 Jun 2024</b>	05 Jun 2024	15 May 2024
Machine Age	hrs	Client Info		<b>24794</b>	24544	24294
Oil Age	hrs	Client Info		<b>250</b>	250	312
Filter Age	hrs	Client Info		<b>250</b>	250	312
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>4</b>	0	5
Chromium	ppm	ASTM D5185m	>4	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>12	<b>2</b>	<1	4
Lead	ppm	ASTM D5185m	>17	<b>5</b>	1	7
Copper	ppm	ASTM D5185m	>70	<b>&lt;1</b>	0	<1
Tin	ppm	ASTM D5185m	>15	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

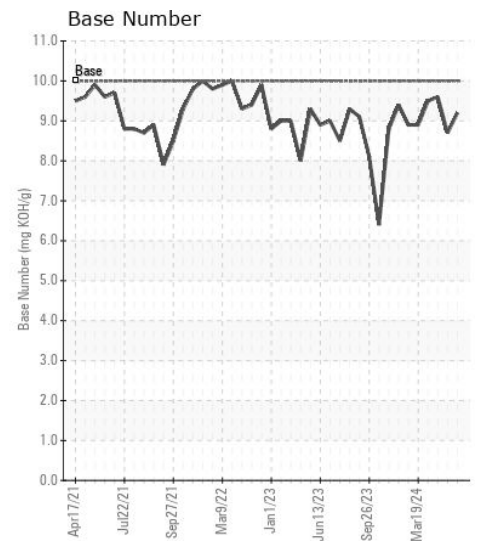
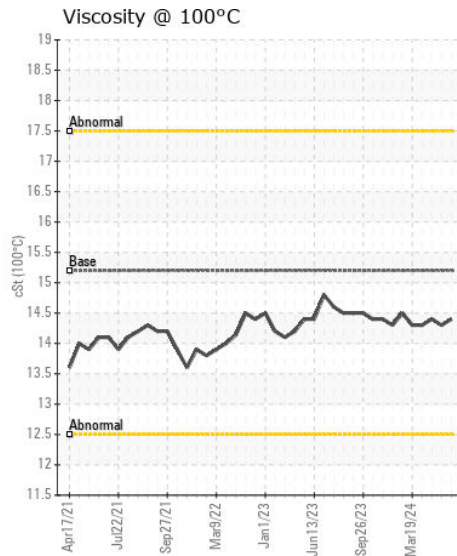
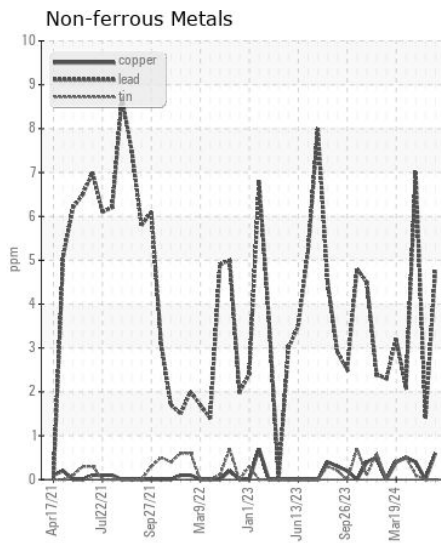
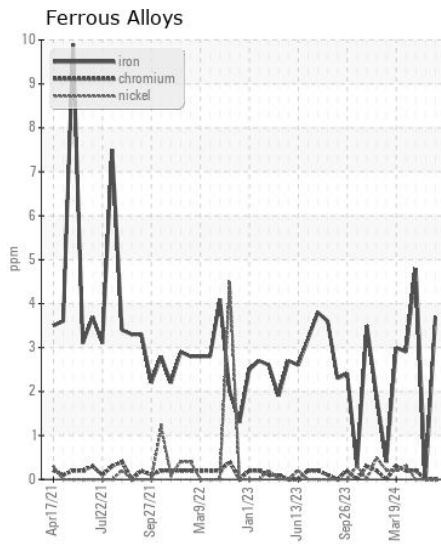
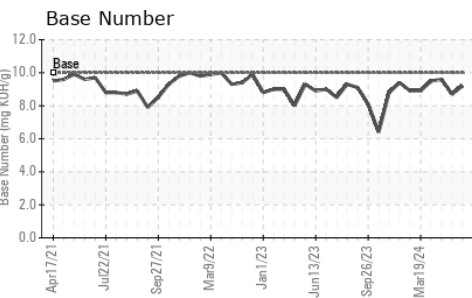
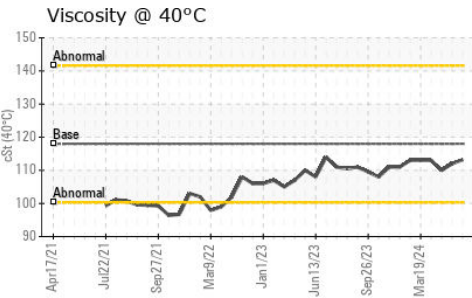
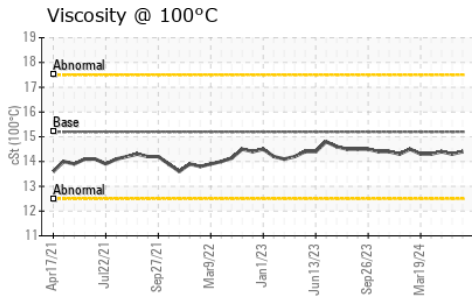
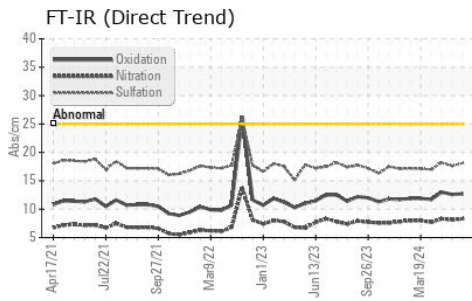
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	5	6
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	2
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>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.3</b>	8.1	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.1</b>	17.6	18.2
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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>2</b>	0	0
Boron	ppm	ASTM D5185m	2.9	<b>68</b>	64	82
Barium	ppm	ASTM D5185m	0.1	<b>0</b>	0	1
Molybdenum	ppm	ASTM D5185m	0.0	<b>36</b>	33	44
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m	18	<b>19</b>	20	19
Calcium	ppm	ASTM D5185m	2936	<b>3599</b>	3746	4249
Phosphorus	ppm	ASTM D5185m	998	<b>911</b>	998	1048
Zinc	ppm	ASTM D5185m	1095	<b>1046</b>	1164	1253
Sulfur	ppm	ASTM D5185m	5469	<b>4254</b>	4817	4924
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>12.7</b>	12.6	13.0
Base Number (BN)	mg KOH/g	ASTM D2896	10.0	<b>9.2</b>	8.7	9.6
Visc @ 40°C	cSt	ASTM D445	118	<b>113.2</b>	112	110
Visc @ 100°C	cSt	ASTM D445	15.2	<b>14.4</b>	14.3	14.4
Viscosity Index (VI)	Scale	ASTM D2270	134	<b>129</b>	129	133



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0860690 **Received** : 15 Jul 2024  
**Lab Number** : 06235328 **Tested** : 17 Jul 2024  
**Unique Number** : 11124162 **Diagnosed** : 18 Jul 2024 - Jonathan Hester  
**Test Package** : FLEET ( Additional Tests: KV40, VI )

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

3850 N VICTORIA ST  
 SHOREVIEW, MN  
 US 55126

Contact: Harsha Padigae  
 hpadigae@louisberger.com

T: (964)780-7579134

F: x:

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)