



**PERFORMANCE  
UNDER  
PRESSURE**

**OIL ANALYSIS REPORT**

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

Machine Id  
**EIMCO AERATOR 4 (S/N 23651-01-A)**

Component  
**Gearbox**

Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RP0034264</b>	RP0029534	RP0017341
Sample Date		Client Info		<b>31 Aug 2023</b>	17 Jul 2022	26 Jan 2022
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	<b>83</b>	82	87
Chromium	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	1	2
Lead	ppm	ASTM D5185m	>100	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m	>200	<b>6</b>	4	4
Tin	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	0
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**

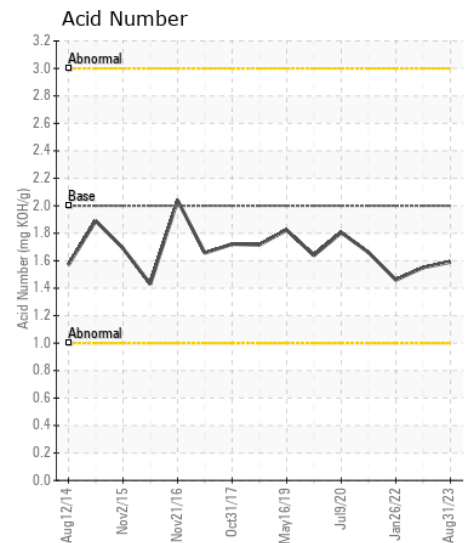
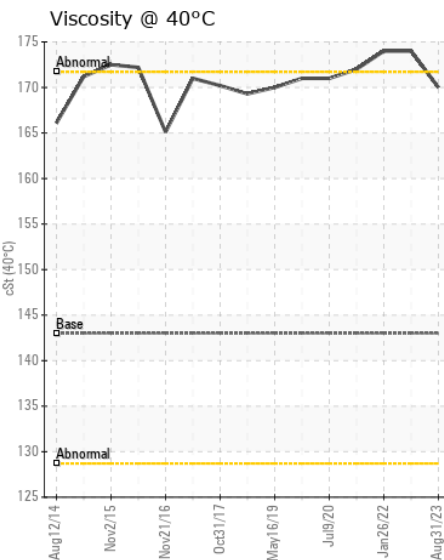
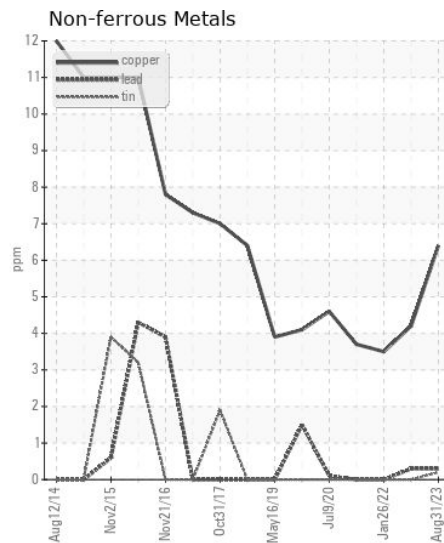
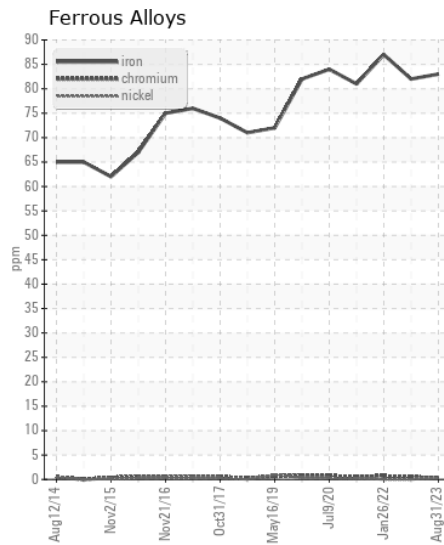
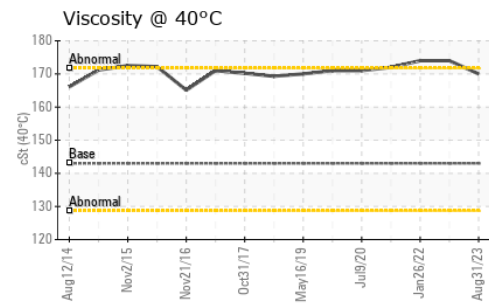
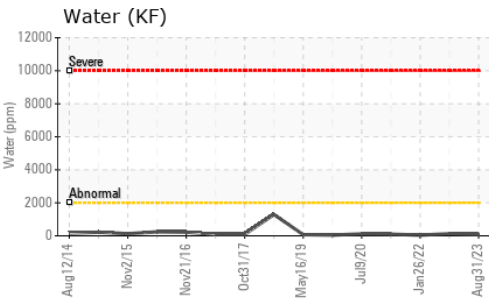
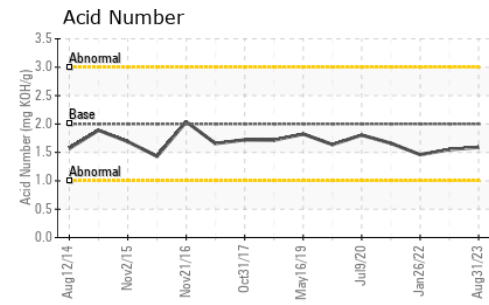
The water content is negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>48</b>	4	4
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	0
Water	%	ASTM D6304	>0.2	<b>0.007</b>	0.013	0.003
ppm Water	ppm	ASTM D6304	>2000	<b>77.1</b>	132.6	38.3
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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>170	<b>0</b>	0	0
Boron	ppm	ASTM D5185m	400	<b>0</b>	2	1
Barium	ppm	ASTM D5185m	200	<b>2</b>	0	<1
Molybdenum	ppm	ASTM D5185m	12	<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	12	<b>8</b>	5	5
Calcium	ppm	ASTM D5185m	150	<b>6</b>	1	<1
Phosphorus	ppm	ASTM D5185m	1650	<b>696</b>	639	626
Zinc	ppm	ASTM D5185m	125	<b>39</b>	36	31
Acid Number (AN)	mg KOH/g	ASTM D8045	2.00	<b>1.59</b>	1.55	1.46
Visc @ 40°C	cSt	ASTM D445	143	<b>170</b>	174	174



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0034264  
**Lab Number** : 05940856  
**Unique Number** : 10631468  
**Test Package** : IND 2  
**Received** : 01 Sep 2023  
**Tested** : 05 Sep 2023  
**Diagnosed** : 05 Sep 2023 - Wes Davis

**SUFFIELD WWTF**  
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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)