



# OIL ANALYSIS REPORT

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

Area  
**[3186671]**  
 Machine Id  
**17RES 2199955**  
 Component  
**Natural Gas Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 5W30 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>DC0033802</b>	DC0026700	DC0025607
Sample Date		Client Info		<b>21 Feb 2024</b>	18 May 2023	06 Feb 2023
Machine Age	hrs	Client Info		<b>0</b>	348	349
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	Changed
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	>50	<b>14</b>	14	42
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>9	<b>&lt;1</b>	<1	2
Lead	ppm	ASTM D5185m	>30	<b>&lt;1</b>	0	2
Copper	ppm	ASTM D5185m	>35	<b>2</b>	2	3
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

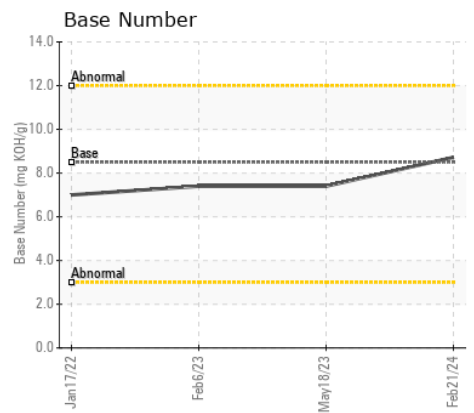
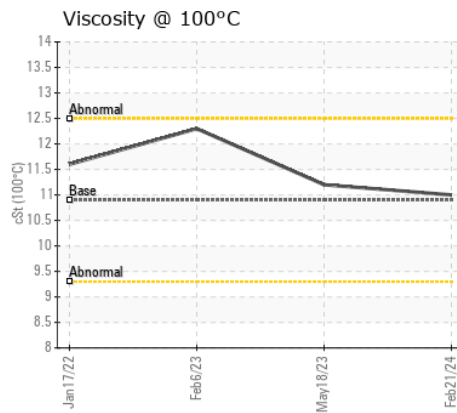
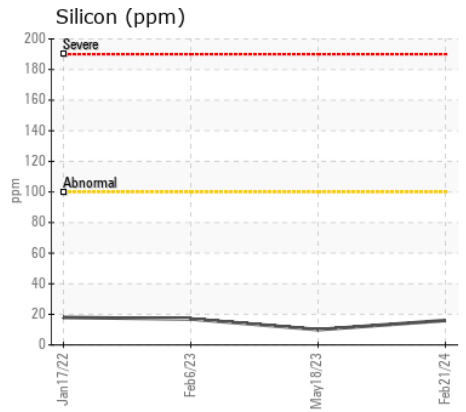
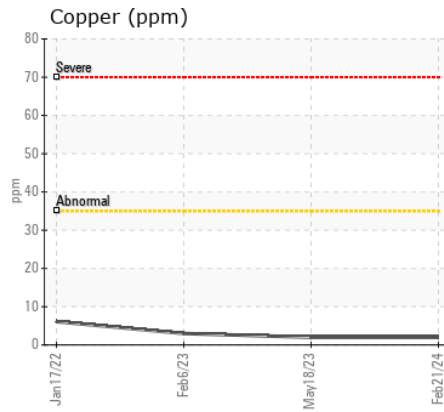
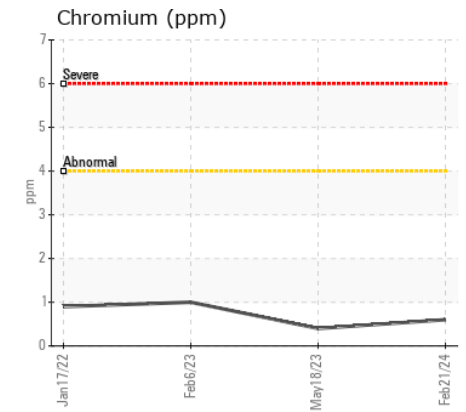
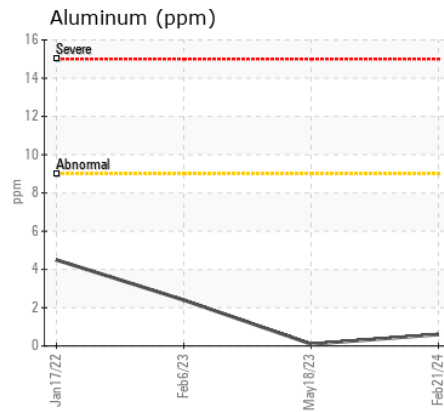
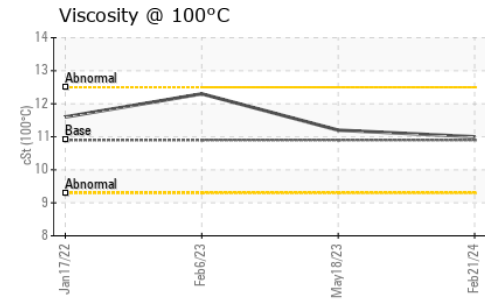
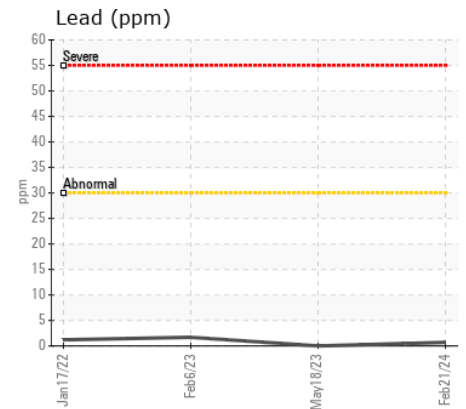
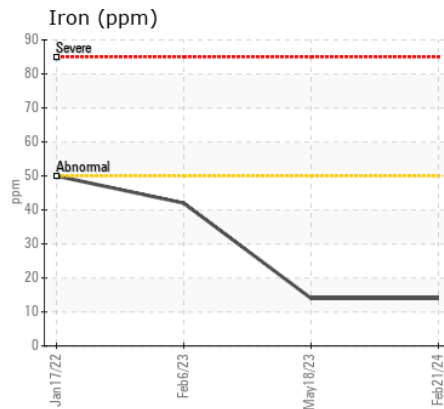
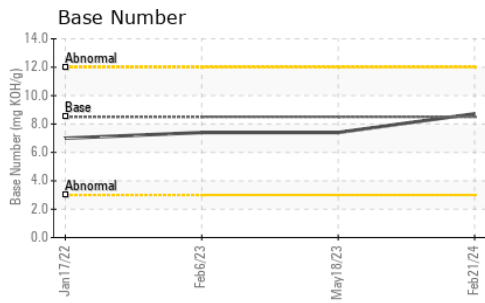
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>16</b>	10	17
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	2	3
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.3</b>	5.4	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>15.4</b>	16.1	20.3
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	>0.1	<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>	1	2
Boron	ppm	ASTM D5185m	250	<b>214</b>	236	187
Barium	ppm	ASTM D5185m	10	<b>5</b>	0	0
Molybdenum	ppm	ASTM D5185m	100	<b>85</b>	88	134
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	450	<b>498</b>	561	625
Calcium	ppm	ASTM D5185m	3000	<b>1236</b>	1472	1788
Phosphorus	ppm	ASTM D5185m	1150	<b>648</b>	676	794
Zinc	ppm	ASTM D5185m	1350	<b>771</b>	881	1069
Sulfur	ppm	ASTM D5185m	4250	<b>2878</b>	3539	3465
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>9.5</b>	9.9	14.3
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>8.72</b>	7.4	7.4
Visc @ 100°C	cSt	ASTM D445	10.9	<b>11.0</b>	11.2	12.3



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DC0033802  
**Lab Number** : 06097906  
**Unique Number** : 10896136  
**Test Package** : MOB 2  
**Received** : 22 Feb 2024  
**Tested** : 23 Feb 2024  
**Diagnosed** : 23 Feb 2024 - Wes Davis

**KELLY GENERATOR & EQUIPMENT INC**  
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Certificate L2367  
 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)