



# OIL ANALYSIS REPORT

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

Machine Id  
**MRC-320**  
 Component  
**Natural Gas Engine**  
 Fluid  
**{not provided} (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

## WEAR

All component wear rates are normal.

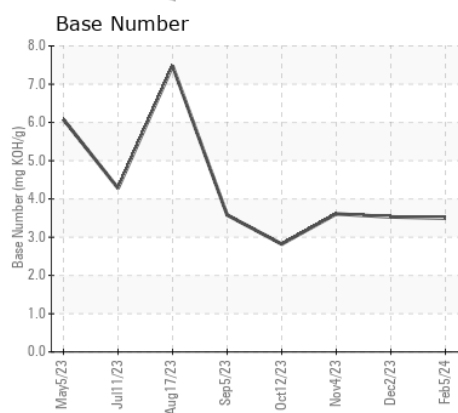
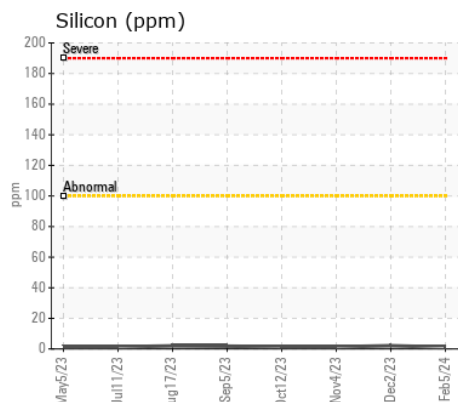
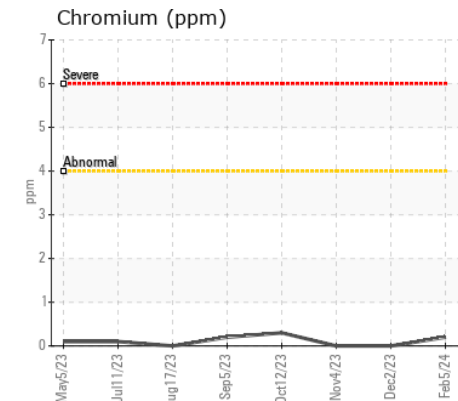
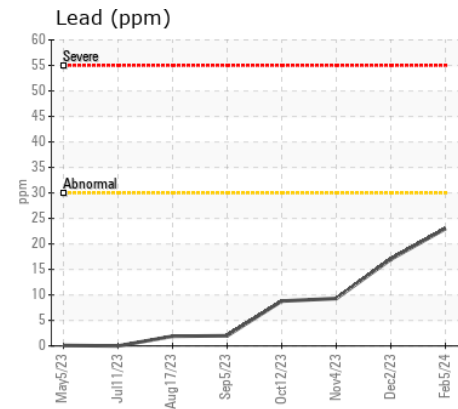
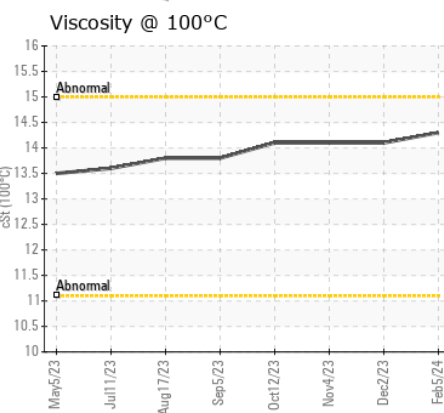
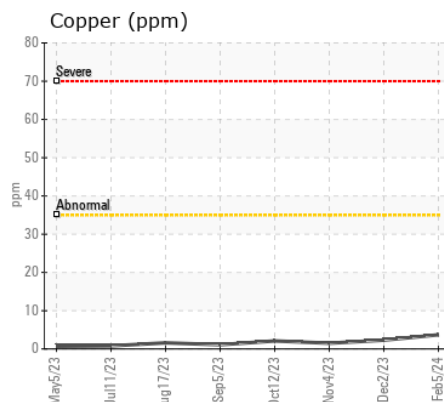
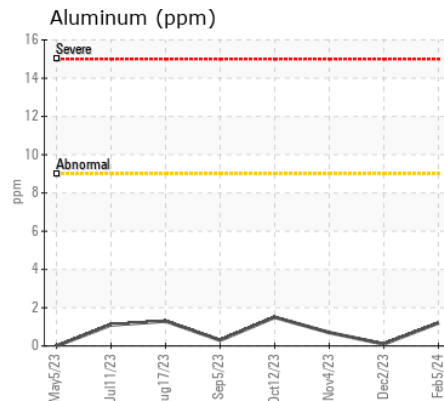
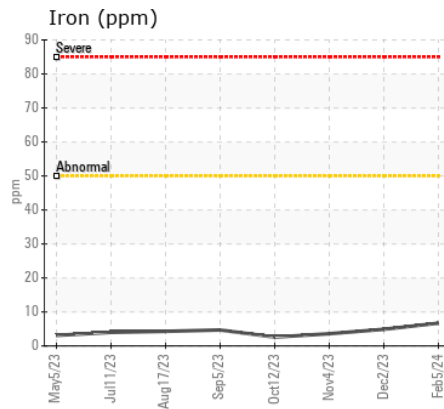
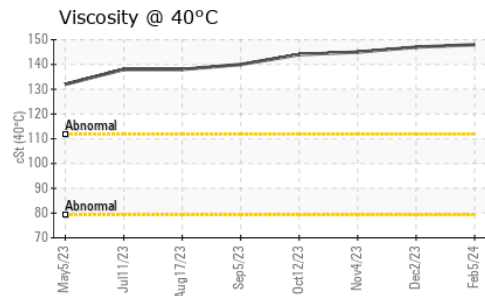
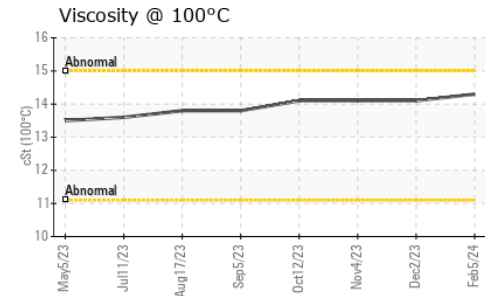
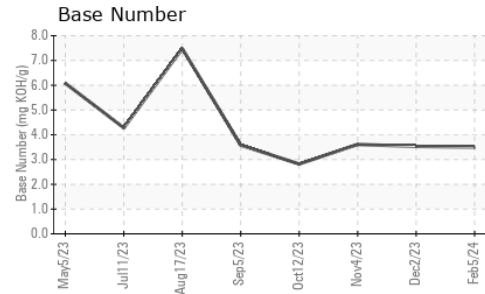
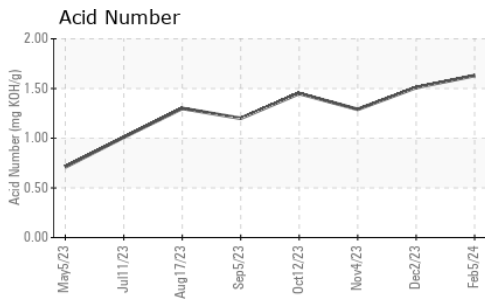
## CONTAMINATION

There is no indication of any contamination in the oil.

## FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>TO60002152</b>	TO60001934	TO60001730
Sample Date		Client Info		<b>05 Feb 2024</b>	02 Dec 2023	04 Nov 2023
Machine Age	hrs	Client Info		<b>6088</b>	5044	4684
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>	Not Changd	N/A
Filter Changed		Client Info		<b>N/A</b>	Not Changd	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>50	<b>7</b>	5	4
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>9	<b>1</b>	<1	<1
Lead	ppm	ASTM D5185m	>30	<b>23</b>	17	9
Copper	ppm	ASTM D5185m	>35	<b>4</b>	2	2
Tin	ppm	ASTM D5185m	>4	<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
Silicon	ppm	ASTM D5185m	>+100	<b>1</b>	2	1
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	0	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0.1</b>	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.5</b>	10.3	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.3</b>	17.9	17.5
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
Sodium	ppm	ASTM D5185m		<b>0</b>	2	2
Boron	ppm	ASTM D5185m		<b>103</b>	88	79
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>2</b>	2	1
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>19</b>	18	22
Calcium	ppm	ASTM D5185m		<b>1364</b>	1451	1274
Phosphorus	ppm	ASTM D5185m		<b>276</b>	298	204
Zinc	ppm	ASTM D5185m		<b>344</b>	333	305
Sulfur	ppm	ASTM D5185m		<b>1624</b>	1516	1202
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.7</b>	17.8	16.9
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.63</b>	1.51	1.29
Base Number (BN)	mg KOH/g	ASTM D2896		<b>3.50</b>	3.53	3.61
Visc @ 40°C	cSt	ASTM D445		<b>148</b>	147	145
Visc @ 100°C	cSt	ASTM D445		<b>14.3</b>	14.1	14.1
Viscosity Index (VI)	Scale	ASTM D2270		<b>93</b>	92	93



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO60002152 **Received** : 13 Feb 2024  
**Lab Number** : 06087590 **Tested** : 14 Feb 2024  
**Unique Number** : 10875035 **Diagnosed** : 14 Feb 2024 - Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: KV40, VI )

**MIDLAND - EOG RESOURCES INC.**  
 5509 CHAMPIONS DRIVE  
 MIDLAND, TX  
 US 79706  
 Contact: HERMAN GARZA  
 herman\_garza@eogresources.com  
 T: (432)686-3600  
 F:

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)