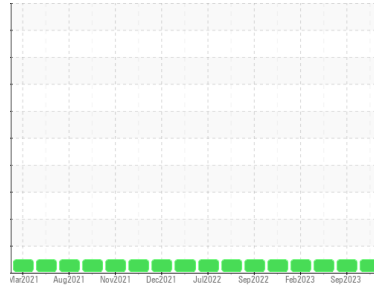


# OIL ANALYSIS REPORT



Area  
**GATHERING STATIONS/BOA GATHERING STATION**  
Machine Id  
**MRC-204 - CAT (S/N JFE01704)**  
Component  
**Natural Gas Engine**  
Fluid  
**LO-ASH ENGINE OIL SAE 15W40 (--- GAL)**

Sample Rating Trend



## DIAGNOSIS

**Recommendation**  
Resample at the next service interval to monitor. 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.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>TO60001478</b>	TO60001449	TO60000729
Sample Date	Client Info		<b>02 Oct 2023</b>	06 Sep 2023	13 Jul 2023
Machine Age	hrs	Client Info	<b>19041</b>	18428	17138
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	Not Changd
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>12</b>	11	6
Chromium	ppm	ASTM D5185m >4	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m >2	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >9	<b>2</b>	<1	1
Lead	ppm	ASTM D5185m >30	<b>28</b>	23	20
Copper	ppm	ASTM D5185m >35	<b>4</b>	4	2
Tin	ppm	ASTM D5185m >4	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 37	<b>71</b>	76	70
Barium	ppm	ASTM D5185m 12	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 200	<b>2</b>	1	2
Manganese	ppm	ASTM D5185m	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m 5	<b>0</b>	13	6
Calcium	ppm	ASTM D5185m 1600	<b>1507</b>	1410	1480
Phosphorus	ppm	ASTM D5185m 300	<b>295</b>	288	308
Zinc	ppm	ASTM D5185m 400	<b>423</b>	351	379
Sulfur	ppm	ASTM D5185m 2600	<b>1803</b>	1810	2000

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	<b>2</b>	3	1
Sodium	ppm	ASTM D5185m	<b>3</b>	5	4
Potassium	ppm	ASTM D5185m >20	<b>2</b>	2	0

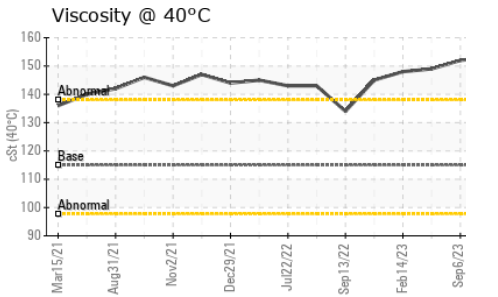
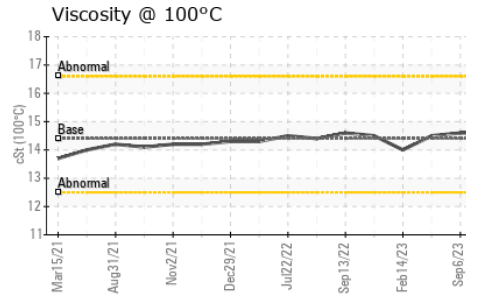
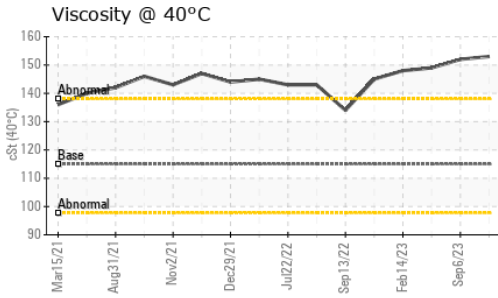
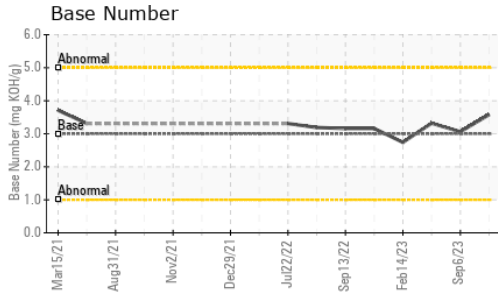
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624 >20	<b>10.3</b>	11.3	9.7
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>19.7</b>	23.0	19.5

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>20.9</b>	23.0	19.4
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>1.83</b>	1.81	1.72
Base Number (BN)	mg KOH/g	ASTM D2896 3.0	<b>3.58</b>	3.06	3.32

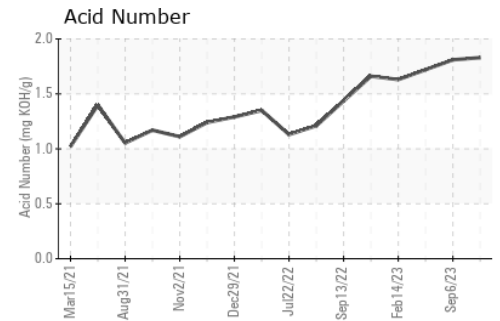
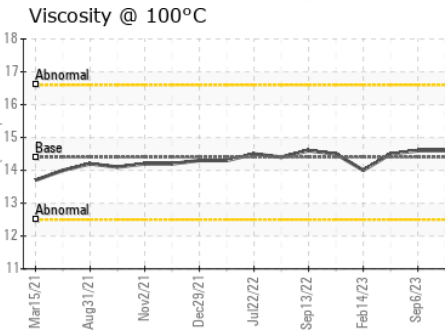
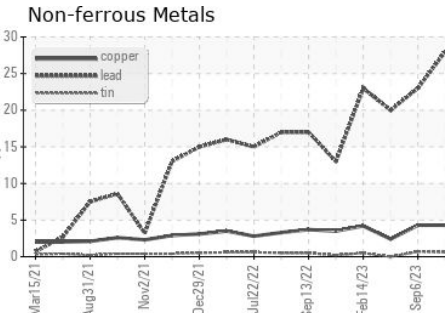
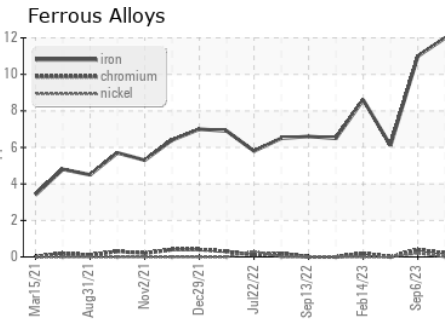
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	115	<b>153</b>	152
Visc @ 100°C	cSt	ASTM D445	14.4	<b>14.6</b>	14.6
Viscosity Index (VI)	Scale	ASTM D2270	126	<b>93</b>	94

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO60001478 **Received** : 16 Oct 2023  
**Lab Number** : **05980595** **Diagnosed** : 17 Oct 2023  
**Unique Number** : 10697890 **Diagnostician** : Wes Davis  
**Test Package** : IND 2 ( Additional Tests: FT-IR, KV40, VI )

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)

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