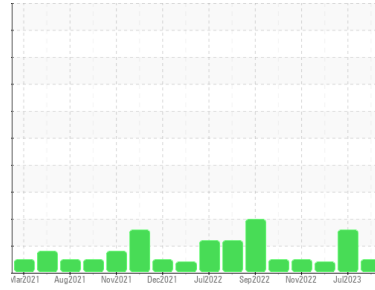


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**GATHERING STATIONS/BOA GATHERING STATION**  
 Machine Id  
**MRC-203 - ARIEL**  
 Component  
**Compressor**  
 Fluid  
**LO-ASH ENGINE OIL SAE 40 (--- GAL)**

**DIAGNOSIS**

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

**Wear**  
 All component wear rates are normal.

**Contamination**  
 There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

**Fluid Condition**  
 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>TO60001477</b>	TO60000726	TO70000214
Sample Date	Client Info			<b>02 Oct 2023</b>	13 Jul 2023	14 Feb 2023
Machine Age	hrs Client Info			<b>22170</b>	20542	16976
Oil Age	hrs Client Info			<b>0</b>	0	0
Oil Changed	Client Info			<b>N/A</b>	Not Changd	N/A
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>0</b>	2	2
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>1</b>	1	2
Lead	ppm	ASTM D5185m	>25	<b>5</b>	3	4
Copper	ppm	ASTM D5185m	>50	<b>31</b>	27	17
Tin	ppm	ASTM D5185m	>15	<b>2</b>	1	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

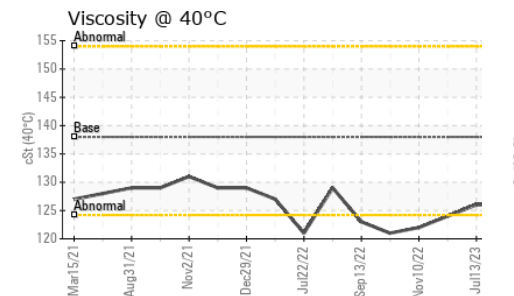
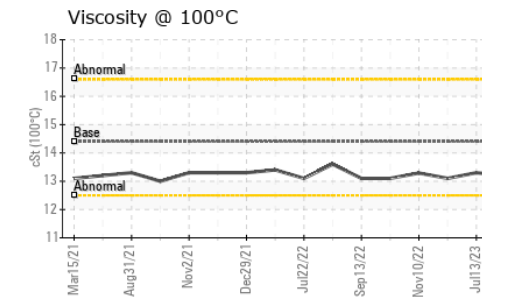
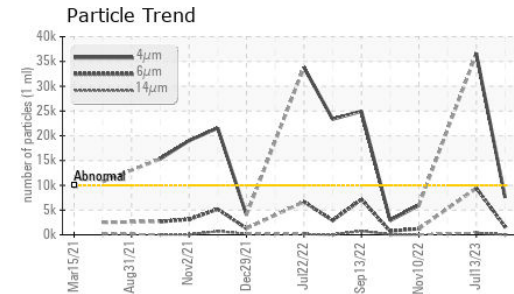
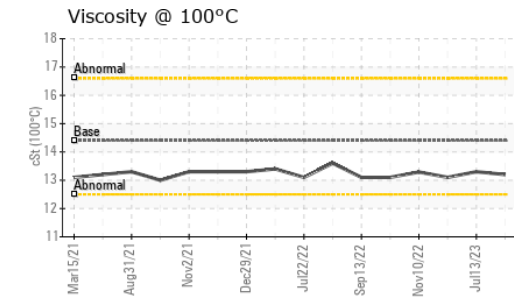
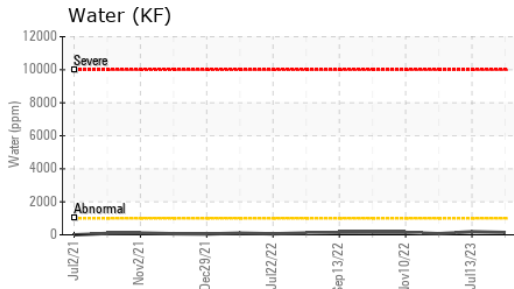
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	37	<b>48</b>	64	46
Barium	ppm	ASTM D5185m	12	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	200	<b>1</b>	3	4
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	5	<b>18</b>	11	12
Calcium	ppm	ASTM D5185m	1600	<b>1320</b>	1379	1345
Phosphorus	ppm	ASTM D5185m	300	<b>295</b>	313	297
Zinc	ppm	ASTM D5185m	400	<b>392</b>	366	352
Sulfur	ppm	ASTM D5185m	2600	<b>2125</b>	2392	2267

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>2</b>	2	1
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	2	2
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	0	0
Water	%	ASTM D6304	>0.1	<b>0.013</b>	0.018	0.006
ppm Water	ppm	ASTM D6304	>1000	<b>138.7</b>	189.0	67.2

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<b>7546</b>	▲ 36569	---
Particles >6µm		ASTM D7647	>2500	<b>1644</b>	▲ 9405	---
Particles >14µm		ASTM D7647	>320	<b>41</b>	▲ 369	---
Particles >21µm		ASTM D7647	>80	<b>7</b>	55	---
Particles >38µm		ASTM D7647	>20	<b>0</b>	2	---
Particles >71µm		ASTM D7647	>4	<b>0</b>	1	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>20/18/13</b>	▲ 22/20/16	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.834</b>	0.281	0.057

# 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	LIGHT	▲ MODER
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

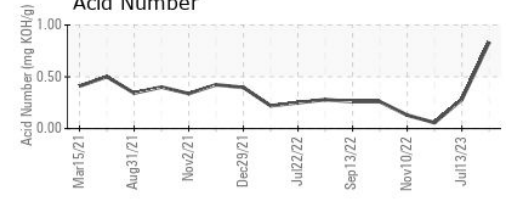
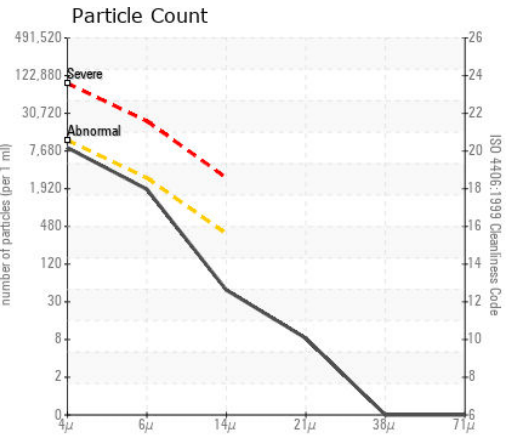
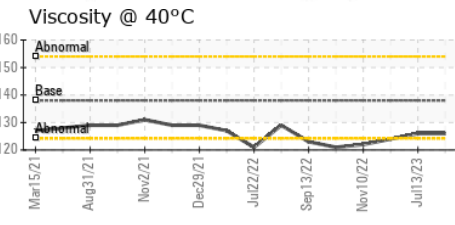
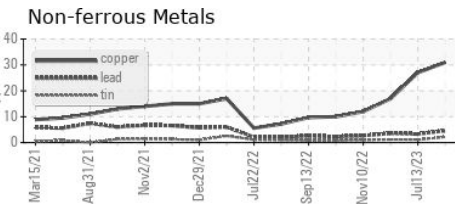
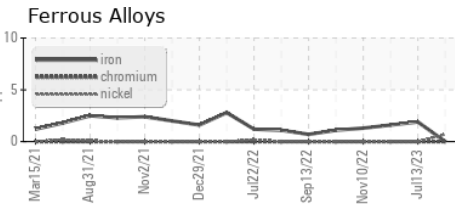
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	138	126	124
Visc @ 100°C	cSt	ASTM D445	14.4	13.2	13.3
Viscosity Index (VI)	Scale	ASTM D2270	102	98	98

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO60001477 **Received** : 16 Oct 2023  
**Lab Number** : 05980485 **Diagnosed** : 18 Oct 2023  
**Unique Number** : 10697780 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, PrtCount, VI )

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

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)