



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**Ariel JGE/4 McClave compressor (S/N JG compressor)**

Component  
**2 Compressor**

Fluid  
**LO-ASH ENGINE OIL SAE 40 (55 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>KL0013067</b>	KL0011511	KL0011962
Sample Date		Client Info		<b>11 Jan 2024</b>	02 Nov 2023	06 Sep 2023
Machine Age	hrs	Client Info		<b>85274</b>	82300	82300
Oil Age	hrs	Client Info		<b>85274</b>	83732	0
Filter Age	hrs	Client Info		<b>2760</b>	83732	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	>50	<b>&lt;1</b>	0	1
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m		<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	1	<1
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	0	1
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

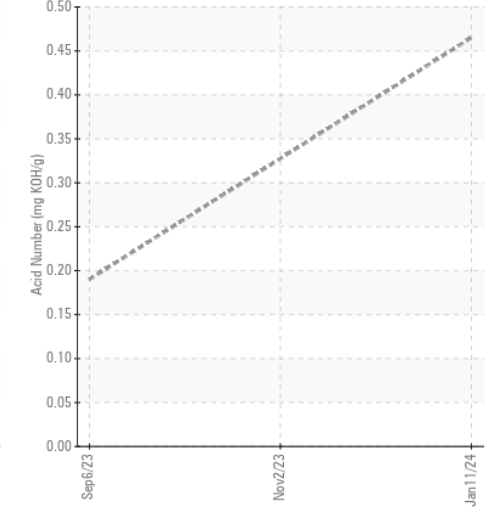
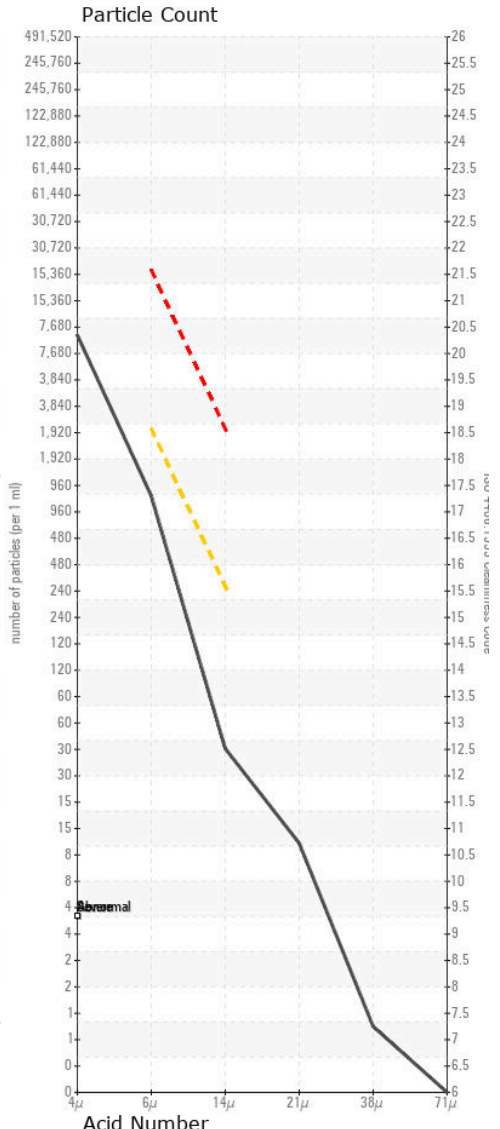
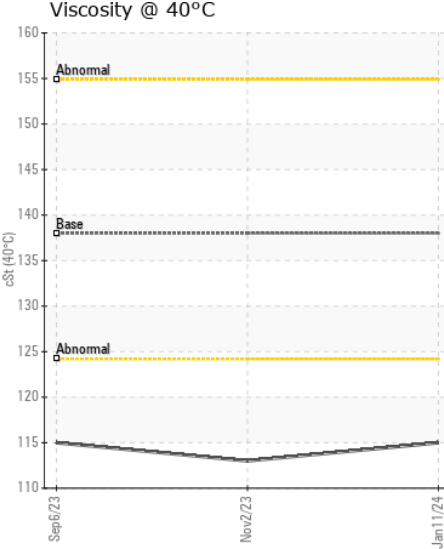
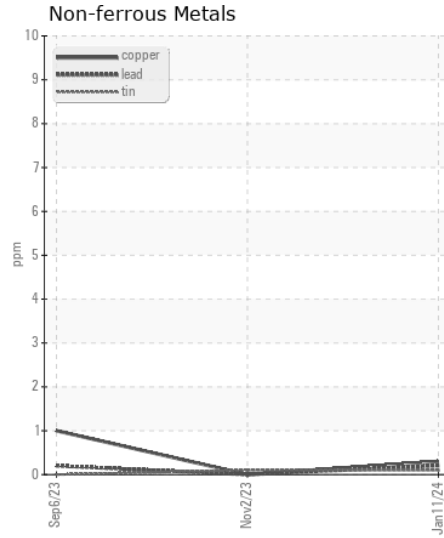
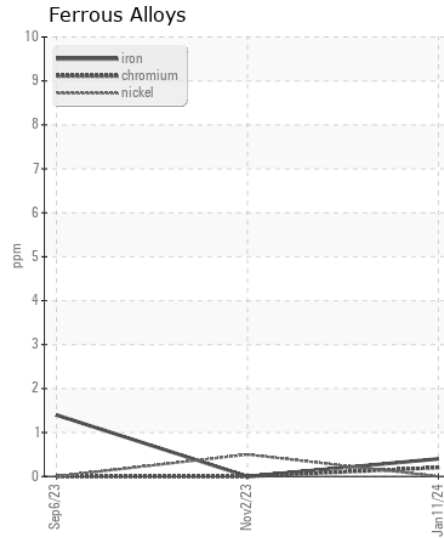
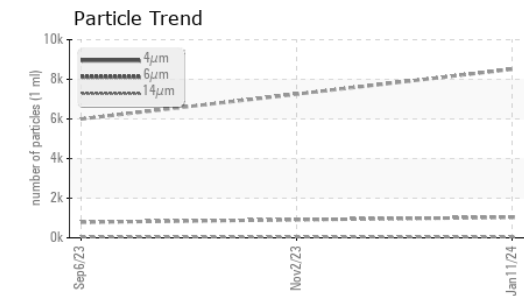
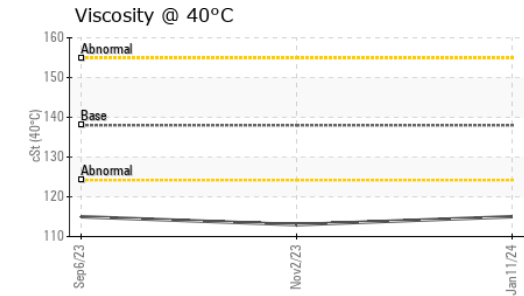
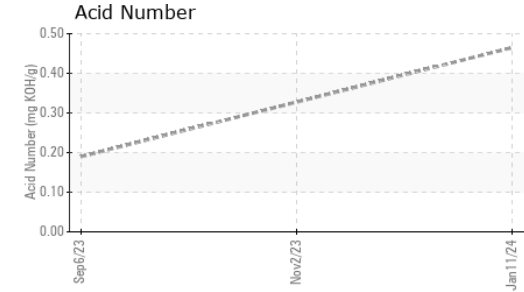
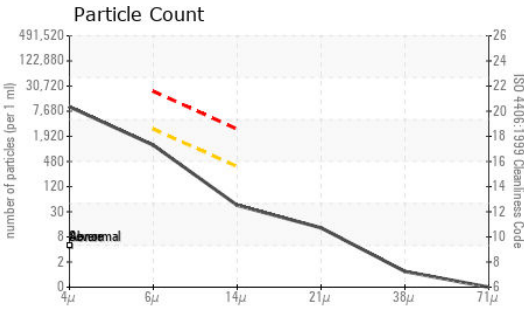
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>25	<b>2</b>	2	3
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	1	2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647		<b>8511</b>	---	5997
Particles >6µm		ASTM D7647	>2500	<b>1036</b>	---	787
Particles >14µm		ASTM D7647	>320	<b>38</b>	---	36
Particles >21µm		ASTM D7647	>80	<b>11</b>	---	13
Particles >38µm		ASTM D7647	>20	<b>1</b>	---	7
Particles >71µm		ASTM D7647	>4	<b>0</b>	---	2
Oil Cleanliness		ISO 4406 (c)	>18/15	<b>17/12</b>	---	17/12
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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>0</b>	0	<1
Boron	ppm	ASTM D5185m	37	<b>5</b>	8	6
Barium	ppm	ASTM D5185m	12	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	200	<b>3</b>	8	49
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m	5	<b>17</b>	17	17
Calcium	ppm	ASTM D5185m	1600	<b>1200</b>	1356	1337
Phosphorus	ppm	ASTM D5185m	300	<b>328</b>	344	310
Zinc	ppm	ASTM D5185m	400	<b>319</b>	424	368
Sulfur	ppm	ASTM D5185m	2600	<b>2617</b>	2856	2909
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.465</b>	---	0.19
Visc @ 40°C	cSt	ASTM D445	138	<b>115</b>	113	115



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0013067 **Received** : 18 Jan 2024  
**Lab Number** : 06065010 **Diagnosed** : 22 Jan 2024  
**Unique Number** : 10836392 **Diagnostician** : Don Baldrige  
**Test Package** : MOB 2 ( Additional Tests: PrtCount )

**STRACHAN EXPLORATION**  
 383 INVERNESS PKWY SUITE 360  
 ENGLEWOOD, CO  
 US 80112  
 Contact: DENNIS JACKSON

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)

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