



# OIL ANALYSIS REPORT

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

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>KL0013814</b>	KL0013067	KL0011511
Sample Date		Client Info		<b>08 Apr 2024</b>	11 Jan 2024	02 Nov 2023
Machine Age	hrs	Client Info		<b>87354</b>	85274	82300
Oil Age	hrs	Client Info		<b>87354</b>	85274	83732
Filter Age	hrs	Client Info		<b>87354</b>	2760	83732
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>0</b>	<1	0
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	2	1
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	<1	0
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

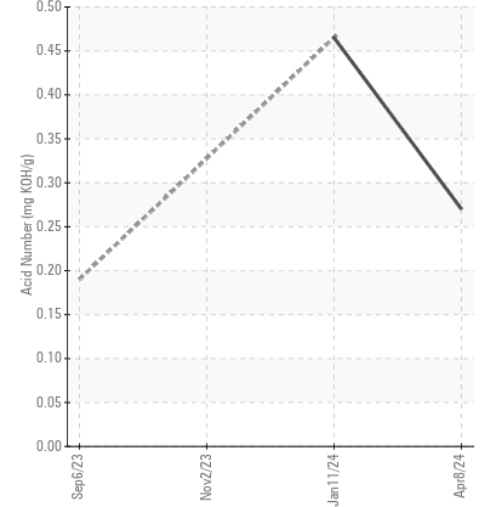
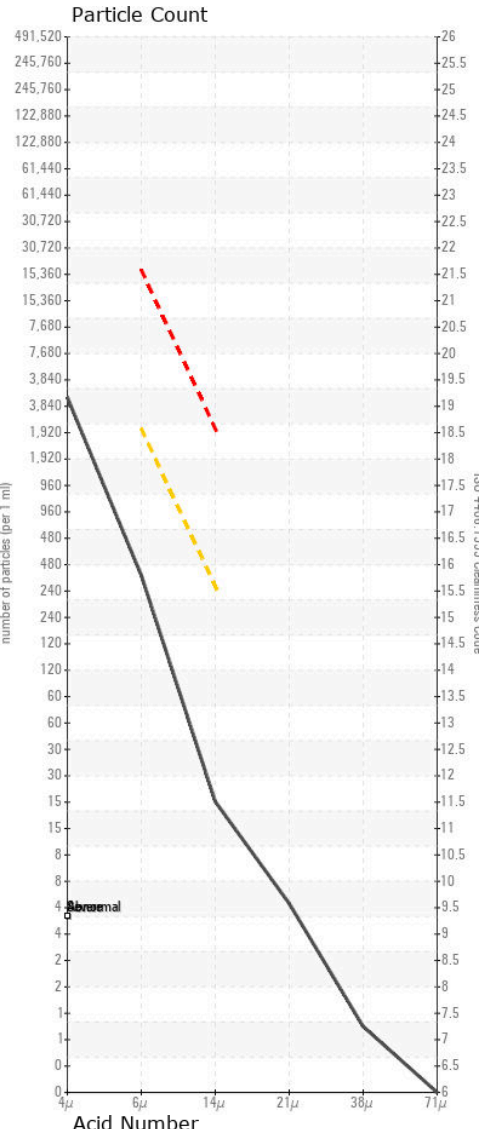
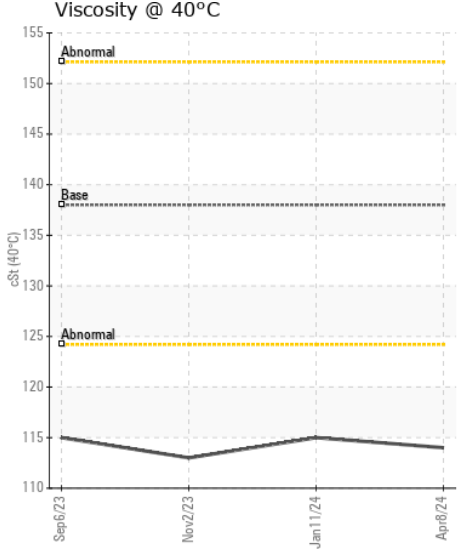
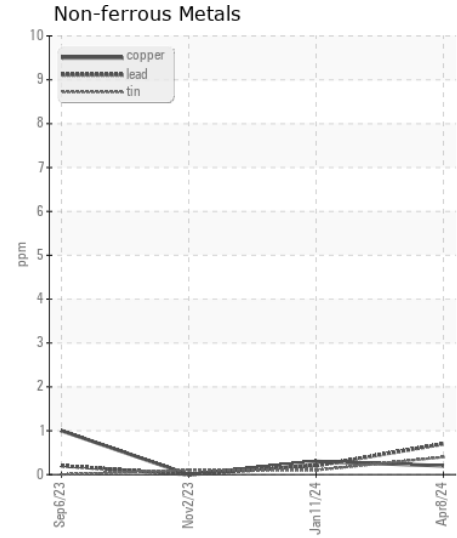
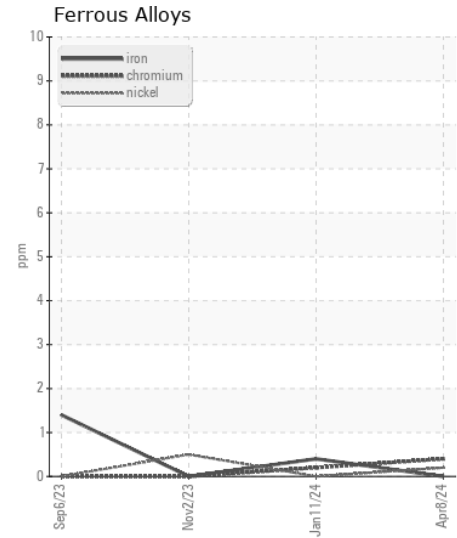
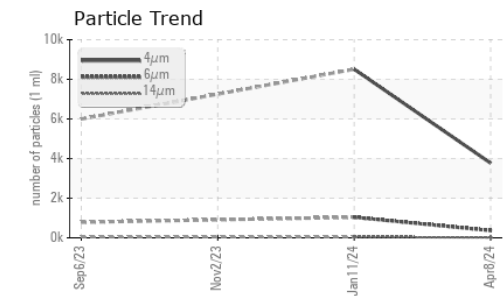
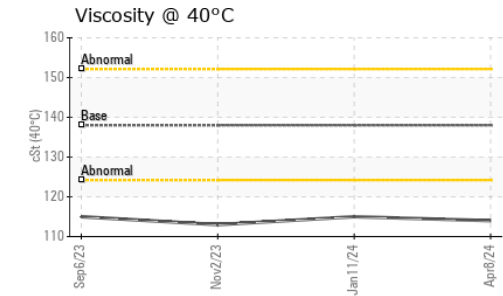
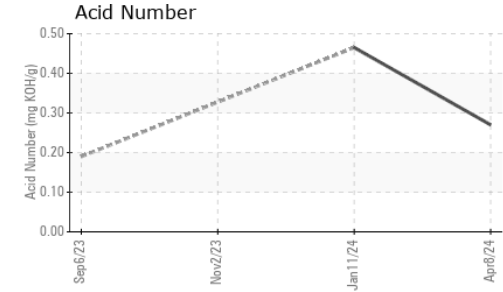
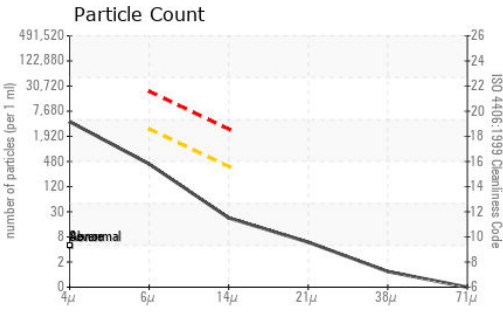
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>25	<b>2</b>	2	2
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	1	1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647		<b>3771</b>	8511	---
Particles >6µm		ASTM D7647	>2500	<b>367</b>	1036	---
Particles >14µm		ASTM D7647	>320	<b>19</b>	38	---
Particles >21µm		ASTM D7647	>80	<b>5</b>	11	---
Particles >38µm		ASTM D7647	>20	<b>1</b>	1	---
Particles >71µm		ASTM D7647	>4	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>18/15	<b>16/11</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	0
Boron	ppm	ASTM D5185m	37	<b>4</b>	5	8
Barium	ppm	ASTM D5185m	12	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185m	200	<b>4</b>	3	8
Manganese	ppm	ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m	5	<b>20</b>	17	17
Calcium	ppm	ASTM D5185m	1600	<b>1335</b>	1200	1356
Phosphorus	ppm	ASTM D5185m	300	<b>300</b>	328	344
Zinc	ppm	ASTM D5185m	400	<b>362</b>	319	424
Sulfur	ppm	ASTM D5185m	2600	<b>2529</b>	2617	2856
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.27</b>	0.465	---
Visc @ 40°C	cSt	ASTM D445	138	<b>114</b>	115	113



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0013814 **Received** : 12 Apr 2024  
**Lab Number** : 06148052 **Tested** : 15 Apr 2024  
**Unique Number** : 10978130 **Diagnosed** : 16 Apr 2024 - Don Baldrige  
**Test Package** : MOB 2 ( Additional Tests: PrtCount )

**STRACHAN EXPLORATION**  
 992 S 4TH AVENUE  
 BRIGHTON, CT  
 US 80601  
 Contact: DENNIS JACKSON

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)