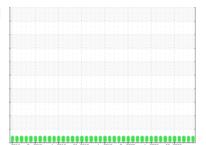


## **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id

# ARIEL B GAS COMPRESSOR (S/N F-19928)

Reciprocating Compressor

**ROYAL PURPLE SYNFILM NGL ISO 150 (25 GAL)** 

# DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

The water content is negligible. There is no indication of any contamination in the oil.

## **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

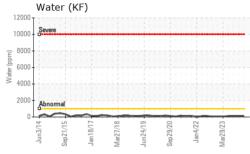
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0018793	RP0018790	RP0021836
Sample Date		Client Info		28 Mar 2024	08 Jan 2024	29 Sep 202
Machine Age	hrs	Client Info		73160	73119	71424
Oil Age	hrs	Client Info		0	0	0
Dil Changed		Client Info		Not Changd	Not Changd	Not Change
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>50	0	0	0
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m		0	0	<1
itanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	<1	<1
_ead	ppm	ASTM D5185m	>25	0	0	<1
Copper	ppm	ASTM D5185m	>50	0	1	0
in	ppm	ASTM D5185m	>15	<1	0	<1
/anadium	ppm	ASTM D5185m	710	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	P P····	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Nolybdenum	ppm	ASTM D5185m		0	0	0
•		ASTM D5185m		0	<1	0
Manganese	ppm		5	-	1	3
Magnesium	ppm	ASTM D5185m		1 192		
Calcium	ppm	ASTM D5185m	175	-	191	177
Phosphorus	ppm	ASTM D5185m	5	1	2	<1
Zinc	ppm	ASTM D5185m		0	3	<1
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm		0.5			
	ррпп	ASTM D5185m	>25	2	0	<1
Sodium	ppm	ASTM D5185m		<1	0	0
Sodium Potassium	ppm	ASTM D5185m ASTM D5185m	>20	<1 <1	0	0
Sodium	ppm	ASTM D5185m ASTM D5185m ASTM D6304	>20 >0.1	<1	0	0 1 0.007
Sodium Potassium	ppm	ASTM D5185m ASTM D5185m	>20 >0.1	<1 <1	0	0
Sodium Potassium Vater	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304	>20 >0.1	<1 <1 0.007 80	0 0 0.008	0 1 0.007
Godium Potassium Vater opm Water FLUID DEGRADA Acid Number (AN)	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304	>20 >0.1 >1000	<1 <1 0.007 80	0 0 0.008 86	0 1 0.007 73.1
Godium Potassium Vater opm Water FLUID DEGRADA Acid Number (AN) VISUAL	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D8045 method	>20 >0.1 >1000 limit/base 0.35	<1 <1 0.007 80 current 0.23 current	0 0 0.008 86 history1 0.22 history1	0 1 0.007 73.1 history2 0.287
Sodium Potassium Vater opm Water FLUID DEGRADA Acid Number (AN) VISUAL White Metal	ppm ppm % ppm ATION mg KOH/g	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D8045 method *Visual	>20 >0.1 >1000 limit/base 0.35 limit/base	<1 <1 0.007 80 current 0.23 current NONE	0 0 0.008 86 history1 0.22 history1 NONE	0 1 0.007 73.1 history2 0.287 history2 NONE
Sodium Potassium Vater opm Water FLUID DEGRADA Acid Number (AN) VISUAL White Metal Vellow Metal	ppm ppm % ppm ATION mg KOH/g	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D8045 method *Visual	>20 >0.1 >1000 limit/base 0.35 limit/base NONE NONE	<1 <1 0.007 80 current 0.23 current	0 0 0.008 86 history1 0.22 history1 NONE	0 1 0.007 73.1 history2 0.287 history2 NONE
Sodium Potassium Vater opm Water FLUID DEGRADA Acid Number (AN) VISUAL White Metal	ppm ppm % ppm ATION mg KOH/g	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D8045 method *Visual	>20 >0.1 >1000 limit/base 0.35 limit/base	<1 <1 0.007 80 current 0.23 current NONE	0 0 0.008 86 history1 0.22 history1 NONE	0 1 0.007 73.1 history2 0.287 history2 NONE
Sodium Potassium Vater opm Water FLUID DEGRADA Acid Number (AN) VISUAL White Metal Vellow Metal	ppm ppm % ppm ATION mg KOH/g scalar scalar	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D8045 method *Visual	>20 >0.1 >1000 limit/base 0.35 limit/base NONE NONE	<1 <1 0.007 80 current 0.23 current NONE NONE	0 0 0.008 86 history1 0.22 history1 NONE	0 1 0.007 73.1 history: 0.287 history: NONE
Sodium Potassium Vater Opm Water FLUID DEGRADA Acid Number (AN) VISUAL White Metal Yellow Metal Precipitate	ppm ppm % ppm ATION mg KOH/g scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D8045 method *Visual *Visual	>20 >0.1 >1000 limit/base 0.35 limit/base NONE NONE NONE	<1 <1 0.007 80 current 0.23 current NONE NONE	0 0 0.008 86 history1 0.22 history1 NONE NONE	0 1 0.007 73.1 history: 0.287 history: NONE NONE
Sodium Potassium Vater Opm Water FLUID DEGRADA Acid Number (AN) VISUAL White Metal Cellow Metal Precipitate Silt Debris	ppm ppm % ppm ATION mg KOH/g scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D8045 method *Visual *Visual *Visual *Visual	>20 >0.1 >1000 limit/base 0.35 limit/base NONE NONE NONE NONE	<1 <1 0.007 80 current 0.23 current NONE NONE NONE	0 0 0.008 86 history1 0.22 history1 NONE NONE NONE	0 1 0.007 73.1 history? 0.287 history? NONE NONE NONE
Sodium Potassium Vater ppm Water FLUID DEGRADA Acid Number (AN) VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm % ppm MTION mg KOH/g scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D8045 method *Visual *Visual *Visual *Visual *Visual *Visual	>20 >0.1 >1000 limit/base 0.35 limit/base NONE NONE NONE NONE NONE NONE	<1 <1 0.007 80 current 0.23 current NONE NONE NONE NONE NONE NONE NONE	0 0 0.008 86 history1 0.22 history1 NONE NONE NONE NONE NONE NONE	0 1 0.007 73.1 history: 0.287 history: NONE NONE NONE NONE
Sodium Potassium Water Opm Water FLUID DEGRADA Acid Number (AN) VISUAL White Metal Precipitate Silt Debris Sand/Dirt	ppm ppm % ppm KTION mg KOH/g scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304  Method ASTM D8045  method  *Visual  *Visual  *Visual  *Visual  *Visual  *Visual  *Visual  *Visual	>20 >0.1 >1000 limit/base 0.35 limit/base NONE NONE NONE NONE NONE NONE NONE	<1 <1 0.007 80 current 0.23 current NONE NONE NONE NONE NONE NONE NONE NON	0 0 0.008 86 history1 0.22 history1 NONE NONE NONE NONE NONE NONE NONE	0 1 0.007 73.1 history2 0.287 history2 NONE NONE NONE NONE
Sodium Potassium Vater Dom Water Dom Water Acid Number (AN) VISUAL White Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm % ppm MTION mg KOH/g scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304  Method ASTM D8045  Method  *Visual  *Visual	>20 >0.1 >1000 limit/base 0.35 limit/base NONE NONE NONE NONE NONE NONE NONE NON	<1 <1 0.007 80 current 0.23 current NONE NONE NONE NONE NONE NONE NONE NON	0 0 0.008 86 history1 0.22 history1 NONE NONE NONE NONE NONE NONE NONE NON	0 1 0.007 73.1 history? 0.287 NONE NONE NONE NONE NONE NONE

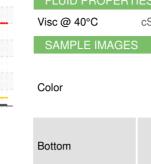


Water (KF)

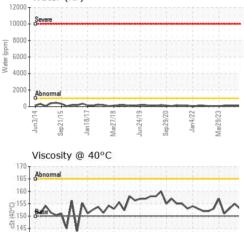
140 13

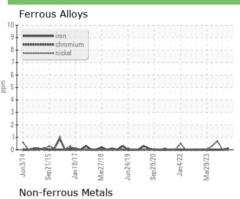
## **OIL ANALYSIS REPORT**

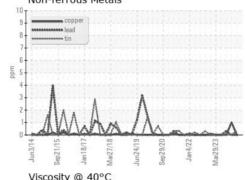


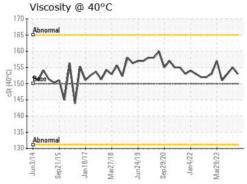


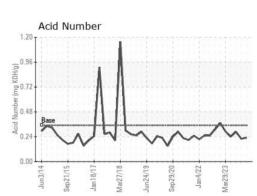
FLUID PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	150	153	155	153
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						
Bottom						















Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : RP0018793 Lab Number : 06157778

Unique Number : 10993201

Received **Tested** Diagnosed KINDER MORGAN POWER PLANT

3693 C.R. 226 SNYDER, TX US 79549

Contact: WAYNE KEELE billy\_keele@kindermorgan.com

T: (325)574-1846 F: (325)573-2143

Test Package : IND 2 Certificate 12367 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)

: 23 Apr 2024

: 24 Apr 2024

: 25 Apr 2024 - Don Baldridge