

## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# NK 112827 - RED TANK 27-78 LP1 (S/N SC389372)

Component Compressor

CIMARRON HB-150 (--- GAL)

### **DIAGNOSIS**

#### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

#### Wear

All component wear rates are normal.

#### Contamination

Moderate concentration of visible dirt/debris present in the oil.

#### **Fluid Condition**

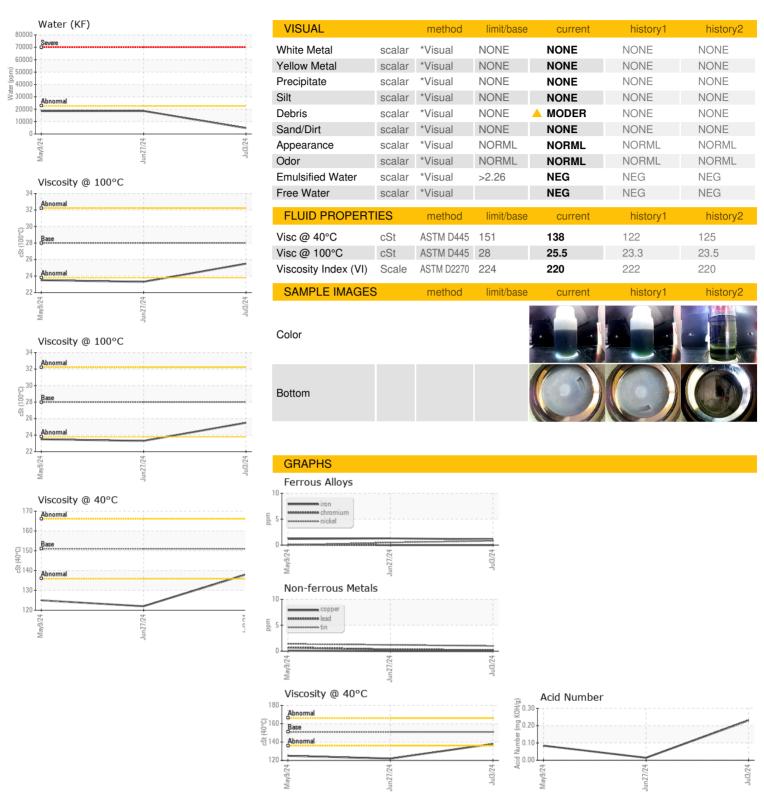
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO90004510	TO90004527	TO90004217
Sample Date		Client Info		03 Jul 2024	27 Jun 2024	09 May 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	1	1	1
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m		<1	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	1	1	<1
Lead	ppm	ASTM D5185m	>25	<1	<1	<1
Copper	ppm	ASTM D5185m	>50	0	0	<1
Tin	ppm	ASTM D5185m	>15	1	1	1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	<1	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	0	0	0	0
Calcium	ppm	ASTM D5185m	0	0	0	0
Phosphorus	ppm	ASTM D5185m	0	27	3	10
Zinc	ppm	ASTM D5185m	0	0	0	0
Sulfur	ppm	ASTM D5185m	0	858	54	0
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	3	1
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	3	3	3
Water	%	ASTM D6304	>2.26	0.474	1.86	1.85
ppm Water	ppm	ASTM D6304	>22600	4740	18600	18500
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000		<b>▲</b> 43372	0569
Particles >6µm		ASTM D7647	>2500		<u>▲</u> 11604	2202
Particles >14µm		ASTM D7647	>320		<b>473</b>	88
Particles >21µm		ASTM D7647	>80		65	22
Particles >38µm		ASTM D7647	>20		1	3
Particles >71µm		ASTM D7647	>4		0	3
Oil Cleanliness		ISO 4406 (c)	>20/18/15		<b>△</b> 23/21/16	21/18/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.23	0.014	0.084

Contact/Location: CARLOS LEAL - CIMCAR



## OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: TO90004510 Lab Number : 06233923

Unique Number : 11122757

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 11 Jul 2024

**Tested** : 16 Jul 2024 Diagnosed : 16 Jul 2024 - Jonathan Hester

Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI) To discuss this sample report, contact Customer Service at 1-800-237-1369.

CARLSBAD, NM UM 88220-8923 Contact: CARLOS LEAL cleal@cimarron.com

4425 GRANDI RD, UNIT F

**CIMARRON ENERGY - CARLSBAD** 

 $^st$  - 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)

T:

F: