

# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**NK 112805- OXY COST TANKS 30-19 LP1 (S/N SC506914)**  
 Component  
**Compressor**  
 Fluid  
**CIMARRON HB-150 (--- GAL)**

## DIAGNOSIS

**Recommendation**  
 We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

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

**Contamination**  
 There is a high amount of particulates 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 INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>TO90004129</b>	---	---
Sample Date	Client Info	<b>25 Jun 2024</b>	---	---
Machine Age	hrs Client Info	<b>0</b>	---	---
Oil Age	hrs Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>50	<b>0</b>	---	---
Chromium ppm ASTM D5185m	>10	<b>&lt;1</b>	---	---
Nickel ppm ASTM D5185m		<b>0</b>	---	---
Titanium ppm ASTM D5185m		<b>0</b>	---	---
Silver ppm ASTM D5185m		<b>0</b>	---	---
Aluminum ppm ASTM D5185m	>25	<b>2</b>	---	---
Lead ppm ASTM D5185m	>25	<b>0</b>	---	---
Copper ppm ASTM D5185m	>50	<b>0</b>	---	---
Tin ppm ASTM D5185m	>15	<b>0</b>	---	---
Vanadium ppm ASTM D5185m		<b>0</b>	---	---
Cadmium ppm ASTM D5185m		<b>&lt;1</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m	0	<b>2</b>	---	---
Barium ppm ASTM D5185m	0	<b>0</b>	---	---
Molybdenum ppm ASTM D5185m	0	<b>0</b>	---	---
Manganese ppm ASTM D5185m		<b>0</b>	---	---
Magnesium ppm ASTM D5185m	0	<b>2</b>	---	---
Calcium ppm ASTM D5185m	0	<b>0</b>	---	---
Phosphorus ppm ASTM D5185m	0	<b>16</b>	---	---
Zinc ppm ASTM D5185m	0	<b>24</b>	---	---
Sulfur ppm ASTM D5185m	0	<b>346</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>25	<b>0</b>	---	---
Sodium ppm ASTM D5185m		<b>11</b>	---	---
Potassium ppm ASTM D5185m	>20	<b>2</b>	---	---
Water % ASTM D6304	>2.26	<b>0.813</b>	---	---
ppm Water ppm ASTM D6304	>22600	<b>8130</b>	---	---

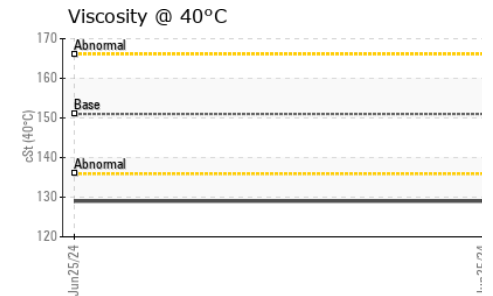
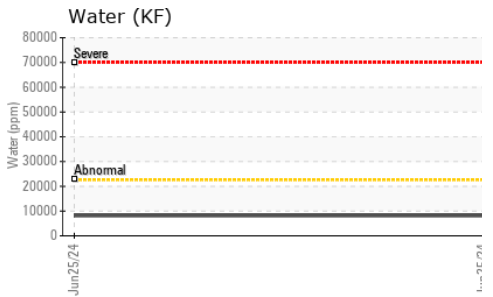
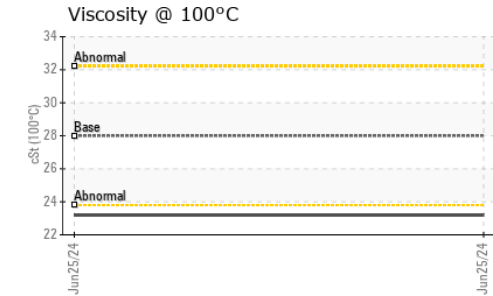
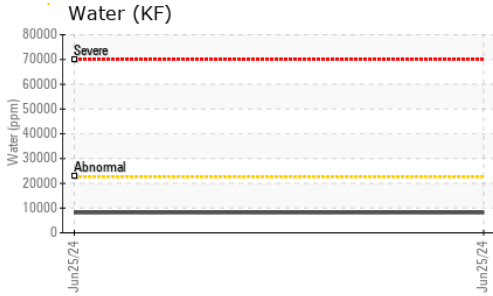
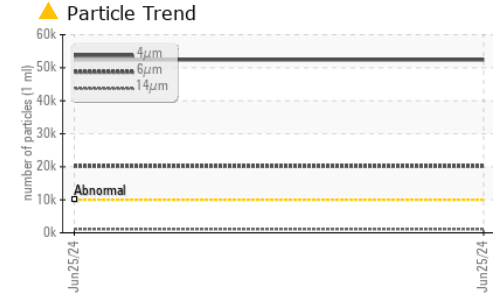
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>10000	<b>▲ 52412</b>	---	---
Particles >6µm ASTM D7647	>2500	<b>▲ 20205</b>	---	---
Particles >14µm ASTM D7647	>320	<b>▲ 1122</b>	---	---
Particles >21µm ASTM D7647	>80	<b>▲ 139</b>	---	---
Particles >38µm ASTM D7647	>20	<b>1</b>	---	---
Particles >71µm ASTM D7647	>4	<b>0</b>	---	---
Oil Cleanliness ISO 4406 (c)	>20/18/15	<b>▲ 23/22/17</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045		<b>0.28</b>	---	---

# OIL ANALYSIS REPORT



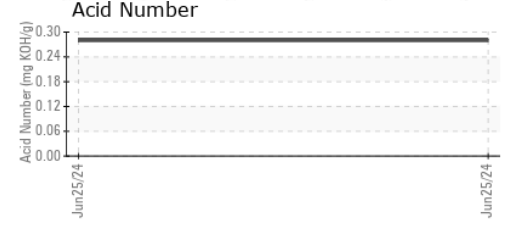
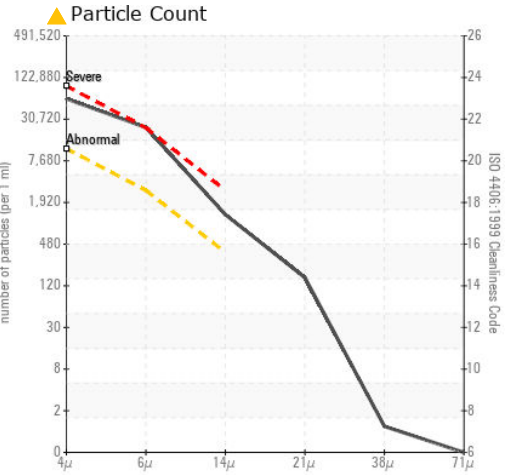
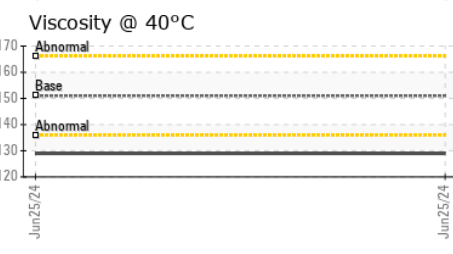
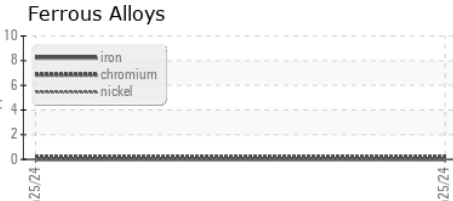
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>2.26	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	151	129	---
Visc @ 100°C	cSt	ASTM D445	28	23.2	---
Viscosity Index (VI)	Scale	ASTM D2270	224	211	---

**SAMPLE IMAGES**

	method	limit/base	current	history1	history2
Color					no image
Bottom					no image

**GRAPHS**



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO90004129 **Received** : 26 Jun 2024  
**Lab Number** : 06221296 **Tested** : 27 Jun 2024  
**Unique Number** : 11099493 **Diagnosed** : 27 Jun 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, PrtCount, VI )

**CIMARRON ENERGY - CARLSBAD**  
 4425 GRANDI RD, UNIT F  
 CARLSBAD, NM  
 UM 88220-8923  
 Contact: CARLOS LEAL  
 cleal@cimarron.com

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)