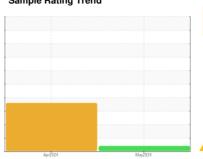


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id

112039 (S/N 5329X6055)

Compressor

CIMARRON HB-150 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. 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. Please note that there was too much water present in the oil to perform an accurate viscosity test @100C.

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.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO90004127	TO90004200	
Sample Date		Client Info		28 May 2024	24 Apr 2024	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	5	<1	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m		0	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>25	<1	<1	
Lead	ppm	ASTM D5185m	>25	1	0	
Copper	ppm	ASTM D5185m	>50	<1	2	
Tin	ppm	ASTM D5185m	>15	2	1	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	0	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	0	0	<1	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m	0	0	0	
Calcium	ppm	ASTM D5185m	0	0	0	
Phosphorus	ppm	ASTM D5185m	0	31	0	
Zinc	ppm	ASTM D5185m	0	0	0	
Sulfur	ppm	ASTM D5185m	0	1541	0	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	
Sodium	ppm	ASTM D5185m		0	<1	
Potassium	ppm	ASTM D5185m	>20	3	2	
Water	%	ASTM D6304	>2.26	1.035	▲ 0.271	
ppm Water	ppm	ASTM D6304	>22600	10356	<u>^</u> 2710	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000		<u>▲</u> 47441	
Particles >6µm		ASTM D7647	>2500		<u>14431</u>	
Particles >14µm		ASTM D7647	>320		△ 967	
Particles >21µm		ASTM D7647	>80		<u>198</u>	
Particles >38µm		ASTM D7647	>20		3	
Particles >71µm		ASTM D7647	>4		0	
Oil Cleanliness		ISO 4406 (c)	>20/18/15		<u>△</u> 23/21/17	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (ANI)	ma 1/011/a	ACTM DODAE		0.41	0.40	

Acid Number (AN)

mg KOH/g ASTM D8045

0.49

0.41



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number : 06204745 Unique Number : 11072206

: TO90004127

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 10 Jun 2024

Tested : 13 Jun 2024 Diagnosed

: 13 Jun 2024 - Doug Bogart

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

 st - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

CIMARRON ENERGY - CARLSBAD

4425 GRANDI RD, UNIT F CARLSBAD, NM UM 88220-8923

Contact: CARLOS LEAL cleal@cimarron.com

T:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: