

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

NK 111898

Compressor

CIMARRON HB-150 (--- GAL)

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

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

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 D5 Jun 2024			Jun2024				
Sample Number Client Info D5 Jun 2024	CAMBLE INFORM	MATION	m ath a d	limit/bass	ou want	historyd	history ()
Sample Date Client Info O5 Jun 2024		TATION		imii/base			HIStory2
Machine Age hrs Client Info 0							
Oil Age hrs Client Info N/A	•						
Oil Changed Status Client Info N/A NORMAL NORM					_		
Sample Status NORMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 0 Nickel ppm ASTM D5185m <1	-	hrs			· ·		
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 0 Nickel ppm ASTM D5185m >10 0 Titanium ppm ASTM D5185m 0 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >25 <1			Client Info		,		
Iron	Sample Status				NORMAL		
Chromium ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m <1 Titanium ppm ASTM D5185m 0 Silver ppm ASTM D5185m >25 <1 Aluminum ppm ASTM D5185m >25 <1 Lead ppm ASTM D5185m >50 0 Copper ppm ASTM D5185m >50 0 Vanadium ppm ASTM D5185m >15 2 Vanadium ppm ASTM D5185m 0 <1 Cadmium ppm ASTM D5185m 0 <1 Boron ppm ASTM D5185m 0 0 Barium ppm ASTM D5185m 0 0 <t< th=""><th>WEAR METALS</th><th></th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></t<>	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m c1	Iron	ppm	ASTM D5185m	>50	0		
Titanium ppm ASTM D5185m 0 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >25 <1	Chromium	ppm	ASTM D5185m	>10	0		
Stilver	Nickel	ppm	ASTM D5185m		<1		
Aluminum	Titanium	ppm	ASTM D5185m		0		
Lead ppm ASTM D5185m >25 0 Copper ppm ASTM D5185m >50 0 Tin ppm ASTM D5185m >15 2 Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 -1 Barium ppm ASTM D5185m 0 0 Molybdenum ppm ASTM D5185m 0 0 Magnesium ppm ASTM D5185m 0 2 Calcium ppm ASTM D5185m 0 20 Sulfur ppm ASTM D5185m 0 19	Silver	ppm	ASTM D5185m		0		
Copper ppm ASTM D5185m >50 0 Tin ppm ASTM D5185m >15 2 Vanadium ppm ASTM D5185m <1	Aluminum	ppm	ASTM D5185m	>25	<1		
Tin ppm ASTM D5185m >15 2 Vanadium ppm ASTM D5185m <1 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 Barium ppm ASTM D5185m 0 0 Molybdenum ppm ASTM D5185m 0 0 Magnesium ppm ASTM D5185m 0 2 Magnesium ppm ASTM D5185m 0 2 Validur ppm ASTM D5185m 0 2 Sulfur ppm ASTM D5185m 0 19 Sulfur ppm ASTM D5185m 0 19 <td>Lead</td> <td>ppm</td> <td>ASTM D5185m</td> <td>>25</td> <td>0</td> <td></td> <td></td>	Lead	ppm	ASTM D5185m	>25	0		
Vanadium ppm ASTM D5185m <1 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 <1 Barium ppm ASTM D5185m 0 0 Molybdenum ppm ASTM D5185m 0 0 Manganese ppm ASTM D5185m 0 2 Magnesium ppm ASTM D5185m 0 2 Magnesium ppm ASTM D5185m 0 2 Calcium ppm ASTM D5185m 0 2 Phosphorus ppm ASTM D5185m 0 19 Sulfur ppm ASTM D5185m 0 19 <t< td=""><td>Copper</td><td>ppm</td><td>ASTM D5185m</td><td>>50</td><td>0</td><td></td><td></td></t<>	Copper	ppm	ASTM D5185m	>50	0		
Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 <1 Barium ppm ASTM D5185m 0 0 Molybdenum ppm ASTM D5185m 0 0 Manganese ppm ASTM D5185m 0 2 Magnesium ppm ASTM D5185m 0 2 Calcium ppm ASTM D5185m 0 20 Phosphorus ppm ASTM D5185m 0 19 Sulfur ppm ASTM D5185m 0 19 Sulfur ppm ASTM D5185m 0 146 CONTAMINANTS method limit/base current history	Tin	ppm	ASTM D5185m	>15	2		
ADDITIVES	Vanadium	ppm	ASTM D5185m		<1		
Boron ppm ASTM D5185m 0 <1 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 Manganese ppm ASTM D5185m <1 Magnesium ppm ASTM D5185m 0 2 Calcium ppm ASTM D5185m 0 2 Phosphorus ppm ASTM D5185m 0 20 Zinc ppm ASTM D5185m 0 19 Sulfur ppm ASTM D5185m 0 146 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 Sodium ppm ASTM D5185m >25 <1 Potassium ppm ASTM D6304 >2.260 0.586 ppm Water ppm ASTM D6304 >2.2600 5860 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >2500 442 Particles >14μm ASTM D7647 >320 16 Particles >21μm ASTM D7647 >20 0 Particles >38μm ASTM D7647 >4 0 Particles >71μm ASTM D7647 >4 0 Oil Cleanliness ISO 4406 (c) >20/18/15 18/16/11	Cadmium	ppm	ASTM D5185m		0		
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Manganese ppm ASTM D5185m <1 Magnesium ppm ASTM D5185m 0 2 Phosphorus ppm ASTM D5185m 0 20 Zinc ppm ASTM D5185m 0 19 Sulfur ppm ASTM D5185m 0 146 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1	Barium	ppm	ASTM D5185m	0	0		
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Phosphorus ppm ASTM D5185m 0 20 Zinc ppm ASTM D5185m 0 19 Sulfur ppm ASTM D5185m 0 146 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1	Magnesium	ppm	ASTM D5185m	0	2		
Zinc ppm ASTM D5185m 0 19 Sulfur ppm ASTM D5185m 0 146 Sulfur ppm ASTM D5185m 0 146 Sulfur ppm ASTM D5185m >25 <1 Sulfum ppm ASTM D5185m >25 <1 Sulfum ppm ASTM D5185m >20 5 Sulfum ppm ASTM D5185m >20 5 Sulfum ppm ASTM D5185m >20 5 Sulfum ppm ASTM D6304 >2.26 0.586 Sulfum Ppm ASTM D6304 >2.2600 5860 Sulfum STM D7647 >2.2600 S860 Sulfum STM D7647 >2.2600 S860 Sulfum STM D7647 >2.2600 S860 Sulfum STM D7647 >2.2600 S860 Sulfum STM D7647 >2.2600 S860 Sulfum STM D7647 >2.2600 S860 Sulfum STM D7647 >3.200 SUlfum	Calcium	ppm	ASTM D5185m	0	2		
Sulfur ppm ASTM D5185m 0 146 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1	Phosphorus	ppm	ASTM D5185m	0	20		
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1	Zinc	ppm	ASTM D5185m	0	19		
Silicon ppm ASTM D5185m >25 <1 Sodium ppm ASTM D5185m <1	Sulfur	ppm	ASTM D5185m	0	146		
Sodium ppm ASTM D5185m <1	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 5 Water % ASTM D6304 >2.26 0.586 ppm Water ppm ASTM D6304 >22600 5860 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >10000 2437 Particles >6μm ASTM D7647 >2500 442 Particles >14μm ASTM D7647 >320 16 Particles >21μm ASTM D7647 >80 3 Particles >38μm ASTM D7647 >20 0 Particles >71μm ASTM D7647 >4 0 Oil Cleanliness ISO 4406 (c) >20/18/15 18/16/11	Silicon	ppm	ASTM D5185m	>25	<1		
Water % ASTM D6304 >2.26 0.586 ppm Water ppm ASTM D6304 >2.2600 5860 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >10000 2437 Particles >6μm ASTM D7647 >2500 442 Particles >14μm ASTM D7647 >320 16 Particles >21μm ASTM D7647 >80 3 Particles >38μm ASTM D7647 >20 0 Particles >71μm ASTM D7647 >4 0 Oil Cleanliness ISO 4406 (c) >20/18/15 18/16/11	Sodium	ppm	ASTM D5185m		<1		
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FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >10000 2437 Particles >6μm ASTM D7647 >2500 442 Particles >14μm ASTM D7647 >320 16 Particles >21μm ASTM D7647 >80 3 Particles >38μm ASTM D7647 >20 0 Particles >71μm ASTM D7647 >4 0 Oil Cleanliness ISO 4406 (c) >20/18/15 18/16/11	Water	%	ASTM D6304	>2.26	0.586		
Particles >4μm ASTM D7647 >10000 2437 Particles >6μm ASTM D7647 >2500 442 Particles >14μm ASTM D7647 >320 16 Particles >21μm ASTM D7647 >80 3 Particles >38μm ASTM D7647 >20 0 Particles >71μm ASTM D7647 >4 0 Oil Cleanliness ISO 4406 (c) >20/18/15 18/16/11	ppm Water	ppm	ASTM D6304	>22600	5860		
Particles >6μm ASTM D7647 >2500 442 Particles >14μm ASTM D7647 >320 16 Particles >21μm ASTM D7647 >80 3 Particles >38μm ASTM D7647 >20 0 Particles >71μm ASTM D7647 >4 0 Oil Cleanliness ISO 4406 (c) >20/18/15 18/16/11	FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >14μm ASTM D7647 >320 16 Particles >21μm ASTM D7647 >80 3 Particles >38μm ASTM D7647 >20 0 Particles >71μm ASTM D7647 >4 0 Oil Cleanliness ISO 4406 (c) >20/18/15 18/16/11	Particles >4µm		ASTM D7647	>10000	2437		
Particles >21μm ASTM D7647 >80 3 Particles >38μm ASTM D7647 >20 0 Particles >71μm ASTM D7647 >4 0 Oil Cleanliness ISO 4406 (c) >20/18/15 18/16/11	Particles >6µm		ASTM D7647	>2500	442		
Particles >38μm ASTM D7647 >20 0 Particles >71μm ASTM D7647 >4 0 Oil Cleanliness ISO 4406 (c) >20/18/15 18/16/11	Particles >14µm		ASTM D7647	>320	16		
Particles >71μm ASTM D7647 >4 0 Oil Cleanliness ISO 4406 (c) >20/18/15 18/16/11	Particles >21µm		ASTM D7647	>80	3		
Oil Cleanliness ISO 4406 (c) >20/18/15 18/16/11	Particles >38μm		ASTM D7647	>20	0		
.,	Particles >71µm		ASTM D7647	>4	0		
FLUID DEGRADATION method limit/base current history1 history2	Oil Cleanliness		ISO 4406 (c)	>20/18/15	18/16/11		
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2

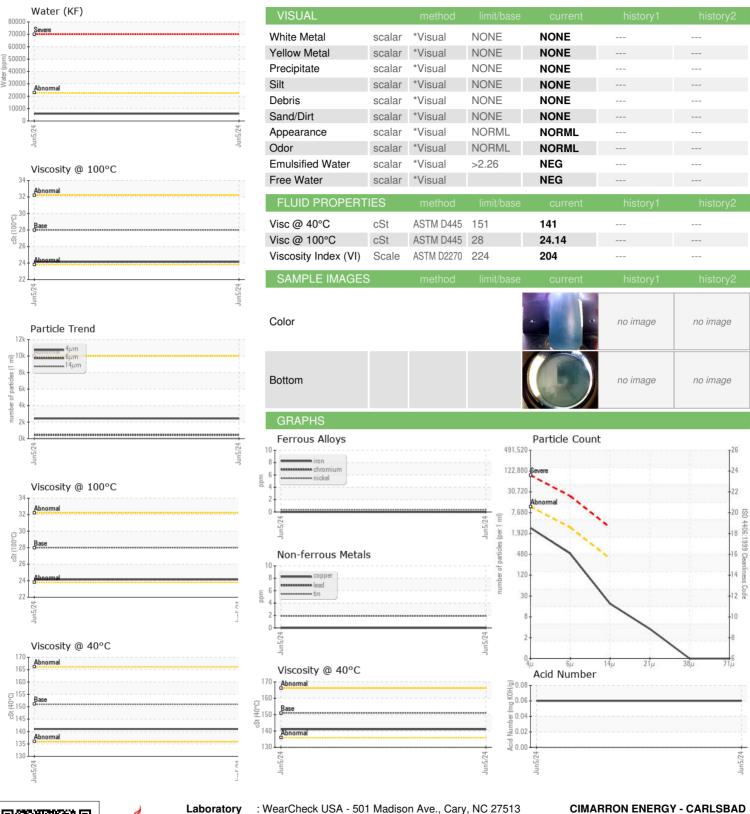
Acid Number (AN)

mg KOH/g ASTM D8045

0.06



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: TO90004125 Lab Number : 06205579

Unique Number : 11073040

Received : 10 Jun 2024 **Tested** : 17 Jun 2024

Diagnosed Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

: 18 Jun 2024 - Jonathan Hester

Contact: CARLOS LEAL cleal@cimarron.com

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

Report Id: CIMCAR [WUSCAR] 06205579 (Generated: 06/22/2024 14:47:28) Rev: 1

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