

OIL ANALYSIS REPORT

Sample Rating Trend

WATER

Machine Id

NK 112609 (S/N SC235682)

Compressor Fluid CIMARRON HB-150 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. 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. There is a high concentration of water present in the oil.

Fluid Condition

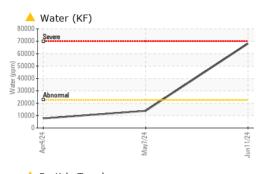
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

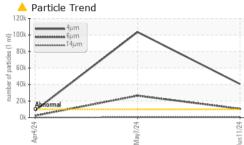
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO90004062	TO90004166	TO90004022
Sample Date		Client Info		11 Jun 2024	07 May 2024	04 Apr 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	9	<1
Chromium	ppm	ASTM D5185m	>10	0	<1	0
Nickel	ppm	ASTM D5185m		<1	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	1	2	2
Lead	ppm	ASTM D5185m	>25	<1	<1	0
Copper	ppm	ASTM D5185m	>50	0	<1	<1
Tin	ppm	ASTM D5185m	>15	2	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	6	0	0
Barium	ppm	ASTM D5185m	0	0	1	0
Molybdenum	ppm	ASTM D5185m	0	0	<1	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	0	3	<1	<1
Calcium	ppm	ASTM D5185m	0	0	7	5
Phosphorus	ppm	ASTM D5185m	0	18	34	14
Zinc	ppm	ASTM D5185m	0	8	3	3
Sulfur	ppm	ASTM D5185m	0	154	111	139
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	1	0
Sodium	ppm	ASTM D5185m		3	2	4
Potassium	ppm	ASTM D5185m	>20	6	2	2
Water	%	ASTM D6304	>2.26	<u> </u>	1.38	0.771
ppm Water	ppm	ASTM D6304	>22600	<u> </u>	13800	7715
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	40685	▲ 103580	8540
Particles >6µm		ASTM D7647	>2500	<u> </u>	<u> </u>	2320
Particles >14µm		ASTM D7647	>320	A 373	4 71	134
Particles >21µm		ASTM D7647	>80	57	37	23
Particles >38µm		ASTM D7647	>20	2	1	1
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	A 23/21/16	▲ 24/22/16	20/18/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.20	0.077	0.19

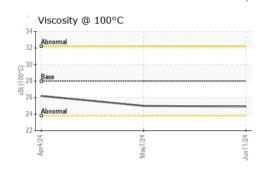
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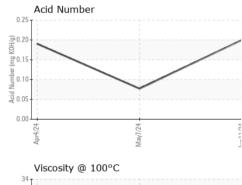


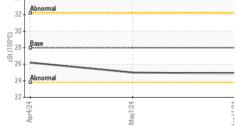
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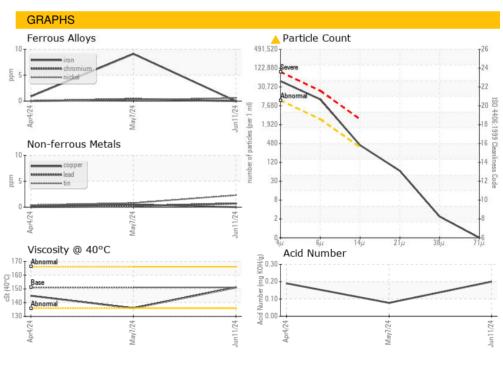


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	LIGHT	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>2.26	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	151	151	136	145
Visc @ 100°C	cSt	ASTM D445	28	24.9	25.0	26.2
Viscosity Index (VI)	Scale	ASTM D2270	224	199	218	217
SAMPLE IMAGES	6	method	limit/base	current	history1	history2











à	Laboratory	: WearCheck USA -	501 Madison Ave.,	Cary, NC 27513	CIMARRON ENERGY - CARLSBAD
ANTAR	Sample No.	: TO90004062	Received	: 20 Jun 2024	4425 GRANDI RD, UNIT F
ACCREDITED	Lab Number	: 06216321	Tested	: 24 Jun 2024	CARLSBAD, NM
TESTING LABORATORY	Unique Number	: 11089185	Diagnosed	: 24 Jun 2024 - Jonathan Hester	UM 88220-8923
Certificate L2367	Test Package	: IND 2 (Additional	Tests: KF, KV100, F	PrtCount, VI)	Contact: CARLOS LEAL
To discuss this	s sample report,	contact Customer S	ervice at 1-800-237	-1369.	cleal@cimarron.com
* - Denotes tes	st methods that	are outside of the IS	O 17025 scope of a	ccreditation.	T:
Statements of	conformity to sp	pecifications are base	ed on the simple acc	eptance decision rule (JC)	<i>GM 106:2012</i>) F:
	Certificate L2367 To discuss this * - Denotes tes	Certificate 12367 To discuss this sample report, * - Denotes test methods that	Sample No. : TO90004062 Lab Number : 06216321 Unique Number : 11089185 Certificate L2367 Test Package : IND 2 (Additional To discuss this sample report, contact Customer S * - Denotes test methods that are outside of the IS	Sample No. : TO90004062 Received Lab Number : 06216321 Tested Unique Number : 11089185 Diagnosed Certificate L2367 Test Package : IND 2 (Additional Tests: KF, KV100, F To discuss this sample report, contact Customer Service at 1-800-237 * - Denotes test methods that are outside of the ISO 17025 scope of additional tests	Sample No. : TO90004062 Received : 20 Jun 2024 Lab Number : 06216321 Tested : 24 Jun 2024 Unique Number : 11089185 Diagnosed : 24 Jun 2024

Report Id: CIMCAR [WUSCAR] 06216321 (Generated: 06/24/2024 15:48:39) Rev: 1

Contact/Location: CARLOS LEAL - CIMCAR