

PROBLEM SUMMARY



Machine Id

VRUOXY0004 - HP4 (S/N LE10572) Compressor Fluid CIMARRON HB-150 (--- GAL)

COMPONENT CONDITION SUMMARY



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. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

PROBLEMATIC TEST RESULTS							
Sample Status				SEVERE	ATTENTION	NORMAL	
Water	%	ASTM D6304	>2.26	A 7.84	0.904	1.02	
ppm Water	ppm	ASTM D6304	>22600	4 78400	9040	10200	
Silt	scalar	*Visual	NONE	🔺 MODER	NONE	NONE	
Debris	scalar	*Visual	NONE	🔺 MODER	NONE	NONE	
Emulsified Water	scalar	*Visual	>2.26	6.2%	NEG	NEG	

Customer Id: CIMCAR Sample No.: TO906233932 Lab Number: 06233932 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

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Action Water Drain-off	Status	Date	Done By ?
Resample			?
Alert			?

Description

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.

We recommend an early resample to monitor this condition.

We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS



11 Jun 2024 Diag: Don Baldridge

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





22 May 2024 Diag: Jonathan Hester

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



07 May 2024 Diag: Doug Bogart

VIS DEBRIS

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.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The water content is negligible. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

VRUOXY0004 - HP4 (S/N LE10572)

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. We recommend an early resample to monitor this condition. 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

There is a high concentration of water present in the oil. 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.

		method	11111/0400	ourrent	motory	matoryz
Sample Number		Client Info		TO906233932	TO90004116	TO90004134
Sample Date		Client Info		03 Jul 2024	11 Jun 2024	22 May 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	N/A
Sample Status				SEVERE	ATTENTION	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	1	0	0
Chromium	ppm	ASTM D5185m	>10	0	<1	0
Nickel	ppm	ASTM D5185m		<1	0	1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	1	2	1
Lead	ppm	ASTM D5185m	>25	<1	0	<1
Copper	ppm	ASTM D5185m	>50	0	0	0
Tin	ppm	ASTM D5185m	>15	2	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	maa	ASTM D5185m	0	2	<1	0
Barium	maa	ASTM D5185m	0	0	0	0
Molvbdenum	maa	ASTM D5185m	0	0	0	0
Manganese	maa	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	0	0	<1	2
Calcium	ppm	ASTM D5185m	0	0	0	0
Phosphorus	ppm	ASTM D5185m	0	4	7	2
Zinc	ppm	ASTM D5185m	0	0	0	0
Sulfur	ppm	ASTM D5185m	0	83	23	75
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	0	<1
Sodium	ppm	ASTM D5185m		<1	4	<1
Potassium	ppm	ASTM D5185m	>20	4	<1	5
Water	%	ASTM D6304	>2.26	1.84	0.904	1.02
ppm Water	ppm	ASTM D6304	>22600	78400	9040	10200
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000		1 4102	5299
Particles >6µm		ASTM D7647	>2500		4358	1198
Particles >14µm		ASTM D7647	>320		193	62
Particles >21µm		ASTM D7647	>80		31	17
Particles >38µm		ASTM D7647	>20		1	0
Particles >71µm		ASTM D7647	>4		0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15		21/19/15	20/17/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.20	0.046	0.085

Contact/Location: CARLOS LEAL - CIMCAR Page 3 of 4



OIL ANALYSIS REPORT







/av22/24

Certificate 12367

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	NONE
Debris	scalar	*Visual	NONE		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	0.2%	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	142	132	125
Visc @ 100°C	cSt	ASTM D445	28	25.6	23.6	37.5
Viscosity Index (VI)	Scale	ASTM D2270	224	216	210	335
SAMPLE IMAGES	;	method	limit/base	current	history1	history2
Color						•

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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)



Report Id: CIMCAR [WUSCAR] 06233932 (Generated: 07/16/2024 15:04:18) Rev: 1

Contact/Location: CARLOS LEAL - CIMCAR

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