

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Machine Id **112342 - HP2 (S/N LE11411)** Component **Compressor**

Fluid CIMARRON HB-150 (--- GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

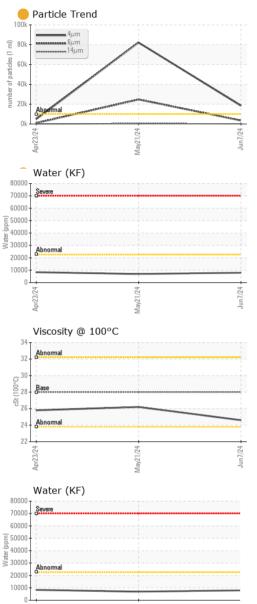
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

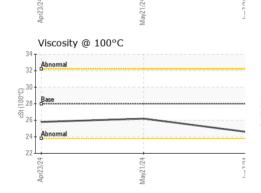
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO90004533	TO90004132	TO90004045
Sample Date		Client Info		07 Jun 2024	21 May 2024	23 Apr 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				ATTENTION	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	<1	1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m		<1	0	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	<1	1
Lead	ppm	ASTM D5185m		<1	2	0
Copper	ppm	ASTM D5185m		0	<1	3
Tin	ppm	ASTM D5185m		1	2	2
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	2	0	0
Calcium	ppm	ASTM D5185m	0	0	0	0
Phosphorus	ppm	ASTM D5185m	0	6	4	103
Zinc	ppm	ASTM D5185m	0	4	0	0
Sulfur	ppm	ASTM D5185m	0	79	189	1349
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	<1
Sodium	ppm	ASTM D5185m		<1	0	5
Potassium	ppm	ASTM D5185m	>20	5	3	4
Water	%	ASTM D6304	>2.26	0.798	0.691	0.839
ppm Water	ppm	ASTM D6304	>22600	7980	6916	8390
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	e 18530	▲ 82255	4828
Particles >6µm		ASTM D7647	>2500	<mark>)</mark> 3508	4 24791	947
Particles >14µm		ASTM D7647	>320	190	A 387	41
Particles >21µm		ASTM D7647	>80	26	25	9
Particles >38µm		ASTM D7647	>20	0	0	1
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	21/19/15	▲ 24/22/16	19/17/13
FLUID DEGRADA	TION	method	limit/base	current	history1	

Contact/Location: CARLOS LEAL - CIMCAR Page 1 of 2



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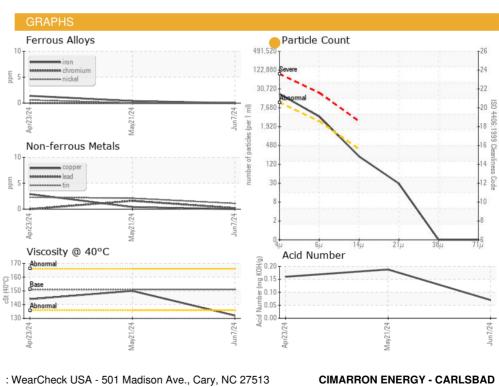




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual	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	132	150	144
Visc @ 100°C	cSt	ASTM D445	28	24.6	26.2	25.8
Viscosity Index (VI)	Scale	ASTM D2270	224	220	211	215
SAMPLE IMAGES	3	method	limit/base	current	history1	history2

Bottom

Color



: 20 Jun 2024

: 24 Jun 2024

: 24 Jun 2024 - Don Baldridge

UM 88220-8923 Contact: CARLOS LEAL cleal@cimarron.com Т: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

4425 GRANDI RD, UNIT F

CARLSBAD, NM

Report Id: CIMCAR [WUSCAR] 06216318 (Generated: 06/24/2024 15:46:55) Rev: 1

Certificate 12367

Laboratory

Sample No.

Lab Number : 06216318

Unique Number : 11089182

: TO90004533

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.

Received

Diagnosed

Tested

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

Contact/Location: CARLOS LEAL - CIMCAR