

OIL ANALYSIS REPORT



ISO

Machine Id

NK 112614 - LP1 (S/N SC389360) Compressor

Fluid

CIMARRON HB-150 (--- GAL)

Recommendation

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

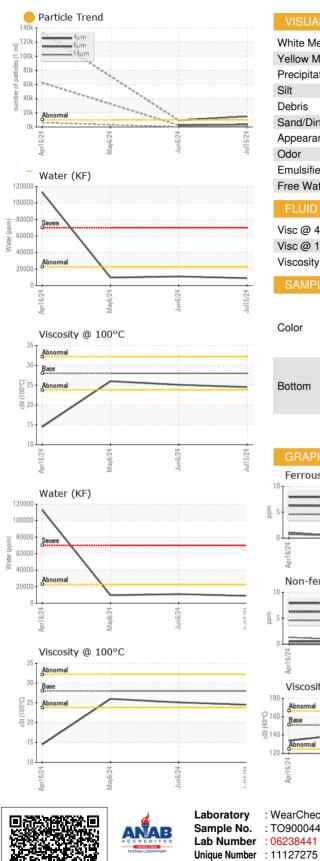
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO90004476	TO20000389	TO90004191
Sample Date		Client Info		15 Jul 2024	06 Jun 2024	06 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				ATTENTION	ATTENTION	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	3	0	6
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m		1	<1	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	1	<1	2
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>50	6	0	<1
Tin	ppm	ASTM D5185m	>15	1	1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	8	<1	0
Barium	ppm	ASTM D5185m	0	0	0	1
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m		1	<1	0
Magnesium	ppm	ASTM D5185m	0	6	2	<1
Calcium	ppm	ASTM D5185m	0	2	<1	4
Phosphorus	ppm	ASTM D5185m	0	6	10	15
Zinc	ppm	ASTM D5185m	0	0	4	2
Sulfur	ppm	ASTM D5185m	0	248	85	53
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	1	<1	1
Sodium	ppm	ASTM D5185m		5	0	<1
Potassium	ppm	ASTM D5185m	>20	6	5	1
Water	%	ASTM D6304	>2.26	0.892	1.10	0.969
ppm Water	ppm	ASTM D6304	>22600	8920	11000	9690
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<mark> </mark> 14827	9435	
Particles >6µm		ASTM D7647	>2500	<mark> </mark> 3438	2566	
Particles >14µm		ASTM D7647	>320	229	165	
Particles >21µm		ASTM D7647	>80	43	30	
Particles >38µm		ASTM D7647	>20	1	1	
Particles >71µm		ASTM D7647	>4	0	0	
Oil Cleanliness		ISO 4406 (c)	>20/18/15	e 21/19/15	20/19/15	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.27	0.10	0.22

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

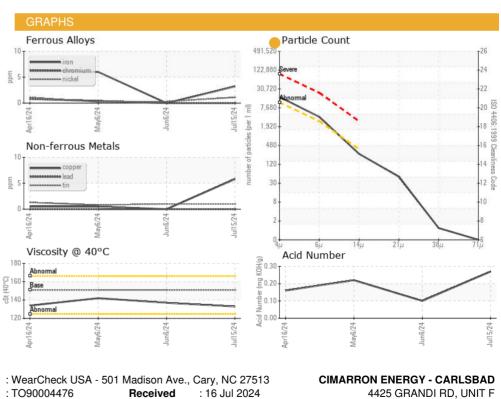


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	🔺 MODER
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	133	137	142
Visc @ 100°C	cSt	ASTM D445	28	24.5	25.1	26.0
Viscosity Index (VI)	Scale	ASTM D2270	224	218	218	219
SAMPLE IMAGES	;	method	limit/base	current	history1	history2
Color						

Bottom



: 18 Jul 2024

: 18 Jul 2024 - Don Baldridge

Tested

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

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.

Diagnosed



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:

Report Id: CIMCAR [WUSCAR] 06238441 (Generated: 07/18/2024 13:27:21) Rev: 1

Certificate 12367

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