

## **OIL ANALYSIS REPORT**



Machine Id

#### OXY LOST TANKS 18 HP1 Component Compressor Fluid CIMARRON HB-150 (--- GAL)

#### DIAGNOSIS

#### A Recommendation

We recommend you service the filters on this component if applicable. 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.

#### **Fluid Condition**

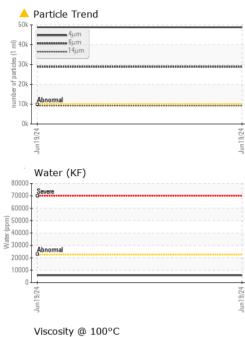
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

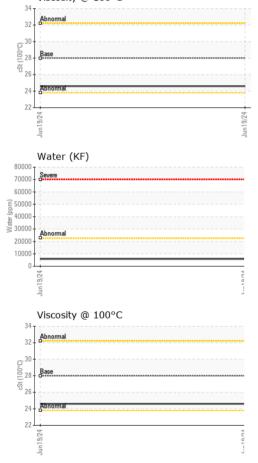
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO20000375		
Sample Date		Client Info		19 Jun 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	4		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m		<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	<1		
Lead	ppm	ASTM D5185m	>25	0		
Copper	ppm	ASTM D5185m	>50	0		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		0		
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		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	0	1		
Calcium	ppm	ASTM D5185m	0	<1		
Phosphorus	ppm	ASTM D5185m	0	19		
Zinc	ppm	ASTM D5185m	0	9		
Sulfur	ppm	ASTM D5185m	0	583		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1		
Sodium	ppm	ASTM D5185m		4		
Potassium	ppm	ASTM D5185m	>20	5		
Water	%	ASTM D6304	>2.26	0.585		
ppm Water	ppm	ASTM D6304	>22600	5850		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<b>48791</b>		
Particles >6µm		ASTM D7647	>2500	<u> </u>		
Particles >14µm		ASTM D7647	>320	<u> </u>		
Particles >21µm		ASTM D7647	>80	🔺 3696		
Particles >38µm		ASTM D7647	>20	<u> </u>		
Particles >71µm		ASTM D7647	>4	🔺 11		
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>A</b> 23/22/20		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.29		

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



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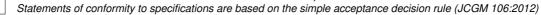




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	White Metal Yellow Metal Precipitate	scalar scalar	*Visual *Visual	NONE	NONE			
		scalar	*\/icual					
	Precipitate		visuai	NONE	NONE			
		scalar	*Visual	NONE	NONE			
	Silt	scalar	*Visual	NONE	NONE			
	Debris	scalar	*Visual	NONE	NONE			
	Sand/Dirt	scalar	*Visual	NONE	NONE			
Jun19/24	Appearance	scalar	*Visual	NORML	NORML			
Junt	Odor	scalar	*Visual	NORML	NORML			
	Emulsified Water	scalar	*Visual	>2.26	NEG			
	Free Water	scalar	*Visual		NEG			
	FLUID PROPER	TIES	method	limit/base	current	history1	history2	
	Visc @ 40°C	cSt	ASTM D445	151	136			
	Visc @ 100°C	cSt	ASTM D445	28	24.6			
						la la ta mud	history 0	
19/24	SAIVIPLE IIVIAGE	.0	method	IIIIII/Dase	current	nistory i	history2	
μη <sub>Γ</sub>	Color				•	no image	no image	
	Bottom					no image	no image	
	GRAPHS							
	Ferrous Alloys					-		
n19/2				491,52	<sup>0</sup>		T <sup>26</sup>	
ηΓ	chromium			122,88	0 Severe		-24	
	8 4-			30,72			-22	
	2				Abnormal	-	and particular and	
				42 (E 7,68)	<sup>0</sup>			
	un 19			[ Lag 1,92	0-		-14	
	2	le		ticles				
	10 <sub>T</sub>			of par				
	8 - copper			Jag 12	0-			
	C			23	0-			
1/c/ 01	2							
1								
	19/24			19/24	2-		-8	
	Γ			ημη	0			
	Viscosity @ 40°C					14μ 21μ	38µ 71µ	
	170 Abnormal			.3 ₽0.3				
	ç <sup>160</sup>			및 0.2 말	4			
	€ 150 - Base			는 0.1	8			
	<sup>23</sup> 140 Abnormal			200	6 I			
	130			0.0 Acid				
¥ C	19/24			19/24	19/24			
101	unr			Jun	Jun			
Unique Number Test Package	: TO20000375 : 06216305 : 11089169 : IND 2 ( Additional Te	Rece Teste Diagr sts: KF, K	ecceived   : 20 Jun 2024     ested   : 24 Jun 2024     agnosed   : 24 Jun 2024 - Don Baldridge     F, KV100, PrtCount, VI )			MARRON ENERGY - CARLSBA 4425 GRANDI RD, UNIT CARLSBAD, NI UM 88220-892 Contact: CARLOS LEA cleal@cimarron.co		
						cleal@	⊉cimarron.co	
	Sample No. Lab Number Unique Number Test Package sample report methods that	Visc @ 40°C Visc @ 100°C Viscosity Index (VI) SAMPLE IMAGE Color Bottom GRAPHS Ferrous Alloys Ferrous Alloys Non-ferrous Meta Official Color Bottom Sample No. Color Col	Visc @ 100°C cSt Viscosity Index (VI) Scale SAMPLE IMAGES Color Bottom GRAPHS Ferrous Alloys Ferrous Alloys Viscosity @ 40°C Viscosity @ 40°C Viscosity @ 40°C	Visc @ 40°C cSt ASTM D445 Visc @ 100°C cSt ASTM D445 Viscosity Index (VI) Scale ASTM D2270 SAMPLE IMAGES method Color Bottom GRAPHS Ferrous Alloys Ferrous Alloys Viscosity @ 40°C Viscosity @ 40°C	Visc @ 40°C CSt ASTM D445 151 Visc @ 100°C CSt ASTM D445 28 Viscosity Index (VI) Scale ASTM D2270 224 SAMPLE IMAGES method Imit/base Color Bottom GRAPHS Ferrous Alloys	Visc @ 40°C cSt ASTM D445 151 136 Visc @ 100°C cSt ASTM D445 28 24.6 Viscosity Index (VI) Scale ASTM D2270 224 214 SAMPLE IMAGES method limit/base current Color    Bottom Image: Color   Bottom Image: Color   GRAPHS Perrous Alloys   Ferrous Alloys Particle Count   Mon-ferrous Metals Particle Count   Mumber Color Color   Estoratory WearCheck USA - 501 Madison Ave., Cary, NC 27513 CIMAI   Sample No. CO20000375 Received 20 Jun 2024   Julique Number ID20000375 Tested 24 Jun 2024 Don Baldridge   Test Package: IND 2 (Additional Tests: KF, KV100, PrtCount, VI) Scange of accredition. Cimat Count	Visc @ 40°C CSI ASTM D445 151 136 Visc @ 100°C CSI ASTM D445 28 24.6 Viscosity Index (VI) Scale ASTM D2270 224 214 SAMPLE IMAGES method limit/base current history1 Color no image Bottom Color no image GRAPHS Ferrous Alloys GRAPHS Ferrous Metals Viscosity @ 40°C Uscosity @ 40°C Uscosity @ 40°C Uscosity @ 40°C Uscosity @ 40°C Color Sample No. TO20000375 Received :: 20 Jun 2024 Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 CIMARRON ENERGY Sample No. TO20000375 Received :: 20 Jun 2024 1089169 Diagnosed :: 24 Jun 2024 Contact: Contact: Caracity Caracity Contact: Caracity Contact: Caracity Contact: Caracity C	



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