

# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

## PIT Component Hydraulic System

### CHEVRON CLARITY HYDRAULIC AW 46 (900 GAL)

#### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### A Wear

The iron level is abnormal. All other component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

#### 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		KFS0000714	WC0542703		
Sample Date		Client Info		11 Apr 2024	23 Aug 2022		
Machine Age	hrs	Client Info		0	0		
Oil Age	hrs	Client Info		0	0		
Oil Changed		Client Info		Filtered	N/A		
Sample Status				ABNORMAL	SEVERE		
CONTAMINATION	١	method	limit/base	current	history1	history2	
Water		WC Method	>0.05	NEG	NEG		
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>20	<u> </u>	<b>A</b> 30		
Chromium	ppm	ASTM D5185m	>20	0	0		
Nickel	ppm	ASTM D5185m	>20	0	0		
Titanium	ppm	ASTM D5185m		0	<1		
Silver	ppm	ASTM D5185m		0	2		
Aluminum	mag	ASTM D5185m	>20	0	<1		
Lead	mag	ASTM D5185m	>20	0	0		
Copper	mag	ASTM D5185m	>20	2	2		
Tin	ppm	ASTM D5185m	>20	0	<1		
Vanadium	nnm	ASTM D5185m	20	0	0		
Cadmium	ppm	ASTM D5185m		0	<1		
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		0	2		
Barium	ppm	ASTM D5185m		0	0		
Molybdenum	nom	ASTM D5185m		0	<1		
Manganese	ppm	ASTM D5185m		د د1	<1		
Manganee	nnm	ASTM D5185m		~1	4		
Calcium	nnm	ASTM D5185m		56	106		
Phosphorus	nnm	ASTM D5185m		67	339		
Zino	ppm	AGTM D5105m		07	274		
Culture	ppin	ACTM DE105m		93	374		
Sullui	ррш	ASTIVI DOTODITI		900	900		
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>15	<1	<1		
Sodium	ppm	ASTM D5185m		<1	2		
Potassium	ppm	ASTM D5185m	>20	<1	0		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>5000	3735			
Particles >6µm		ASTM D7647	>1300	1057			
Particles >14µm		ASTM D7647	>160	94			
Particles >21µm		ASTM D7647	>40	33			
Particles >38µm		ASTM D7647	>10	2			
Particles >71µm		ASTM D7647	>3	0			
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/17/14			
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/a	ASTM D8045		0.148	0.76		
3:52:37) Rev: 1	U U				Submitted By: JERRY BAILEY		

Page 1 of 2



# **OIL ANALYSIS REPORT**

Particle Trend			VISUAL		method	limit/base	current
⇒ 5k + 9			White Metal	scalar	*Visual	NONE	NONE
Ξ 4k			Yellow Metal	scalar	*Visual	NONE	NONE
ation of the second sec			Precipitate	scalar	*Visual	NONE	NONE
			Silt	scalar	*Visual	NONE	NONE
admin 1			Debris	scalar	*Visual	NONE	LIGHT
			Sand/Dirt	scalar	*Visual	NONE	NONE
UK - 22/		/24 -	Appearance	scalar	*Visual	NORML	NORML
Aug 23		Apr11	Odor	scalar	*Visual	NORML	NORML
			Emulsified Water	scalar	*Visual	>0.05	NEG
491,520 T		T <sup>26</sup>	Free Water	scalar	*Visual		NEG
122,880 Severe		-24		RTIES	method	limit/base	current
7,680 Abnormal		+20 4406	Visc @ 40°C	cSt	ASTM D445	46.0	50.4
1,920 1,920 1,920 480		-18 1999 +16 C			method	limit/base	current
2 2 2 2 2 2 2 2 2 2 2 2 2 2		-14 eanliness Code -10 de -8	Color	5	method	inni/base	Current
Acid Number	14µ 21µ :	38μ 71μ	Bottom				
ق ۵.40 ۹.0.40			GRAPHS				
2 0.20			🔺 Ferrous Alloys			101 500	Particle Cour
<sup>₩</sup> 0.10			iron			- 491,520	1
0.00		YC.	20 - newsease chromium			122,880	-
ug23/		(11m)	udd a			30.720	Severe
Aı		<	10				
Viscosity @ 40	°C		0			7,680	Abnormal
54			23/22			5/11/5 1.920	
50 +			Aug			Ap les (p	
Q 48			Non-ferrous Met	als		opped 480	
<sup>€</sup> <sup>5</sup> <sup>46</sup> - <b>Base</b>			8 copper			jo _iaj 120	-
44			- 6+			ma	
42 - Abnormal			ā 4.			30	1
40		× c	2-				ļ
ug23/			oЦ		o		
4			g23/2			r11/2	1
Particle Trend			Au	_		de 04	и 6и
οκ μοποιπια 4μm			Viscosity @ 40°C	5			Acid Number
Ē <sup>5κ</sup> • • • • • • • • • • • • • • • • • • •			Abnormal			(B/H	
30 4k -			ç 50			9.60 P	
™ 3k			Base Base			ے 0.40	+
a 2k -			Abnormal			N 0.20	+
≓ 1k -			40				
ok L		r.	23/22			11/24	23/22
Aug23/		11/m	Aug			Apr	Aug
	Certificate 12367 To discuss this * - Denotes tess	Laboratory Sample No. Lab Number Unique Number Test Package sample report, t methods that	: WearCheck USA - 5 : KFS0000714 : 06148611 : 10978689 : IND 2 contact Customer Ser are outside of the ISO	01 Madiso Rece Teste Diagr rvice at 1-8 17025 sco	on Ave., Cary ived : 15 nosed : 17 800-237-1365 ope of accret	r, NC 27513 5 Apr 2024 6 Apr 2024 Apr 2024 - Don 9. ditation.	Baldridge

2200 CLIFTON AVE NASHVILLE, TN US 37203 Contact: CHRIS HIGGINS chiggins@kimbrooil.com T: (270)305-1347 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

**KIMBRO OIL COMPANY** 

38

214

history1

NONE

NONE

NONE

NONE

LIGHT

NONE

NORML

NORML ▲ 0.2%

history1

history1

▲ 5.0

Count

48.4

history2

---

history2

history2

no image

no image

-22 20

-20 4406:1999 Cle

14 🖁 Code

Apr11/24 -

Report Id: KIMNAS [WUSCAR] 06148611 (Generated: 04/17/2024 13:52:37) Rev: 1

Submitted By: JERRY BAILEY

Page 2 of 2