



# OIL ANALYSIS REPORT

Sample Rating Trend

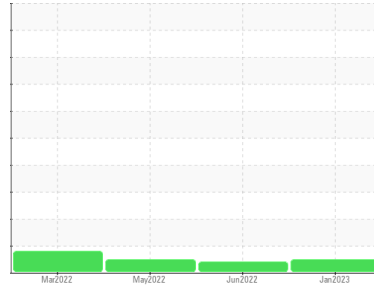
**NORMAL**



Machine Id  
**COX CH175A-23120-01-1P (S/N 8401061)**

Component  
**Boom Winch**

Fluid  
**CHEVRON MEROPA 220 (--- GAL)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0712855</b>	WC0675781	WC0675846
Sample Date	Client Info			<b>02 Jan 2023</b>	01 Jun 2022	05 May 2022
Machine Age	yrs	Client Info		<b>0</b>	0	0
Oil Age	yrs	Client Info		<b>0</b>	1	1
Oil Changed	Client Info			<b>N/A</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ATTENTION	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		<b>45</b>	---	---
Iron	ppm	ASTM D5185m	>150	<b>68</b>	60	63
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	2	1
Aluminum	ppm	ASTM D5185m	>25	<b>1</b>	0	2
Lead	ppm	ASTM D5185m	>100	<b>0</b>	2	0
Copper	ppm	ASTM D5185m	>50	<b>19</b>	7	7
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	1	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	40	<b>3</b>	5	8
Barium	ppm	ASTM D5185m		<b>2</b>	4	<1
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	1
Magnesium	ppm	ASTM D5185m		<b>0</b>	0	0
Calcium	ppm	ASTM D5185m		<b>5</b>	13	1
Phosphorus	ppm	ASTM D5185m	270	<b>217</b>	278	261
Zinc	ppm	ASTM D5185m		<b>29</b>	182	27
Sulfur	ppm	ASTM D5185m	8600	<b>6883</b>	3933	7121

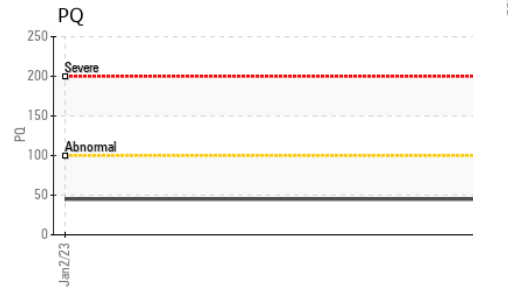
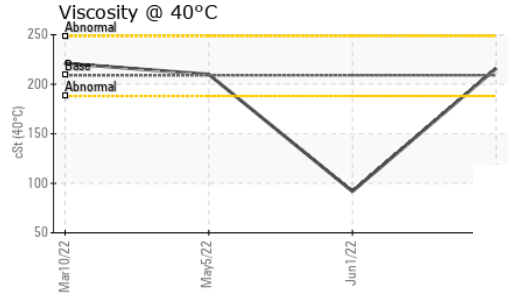
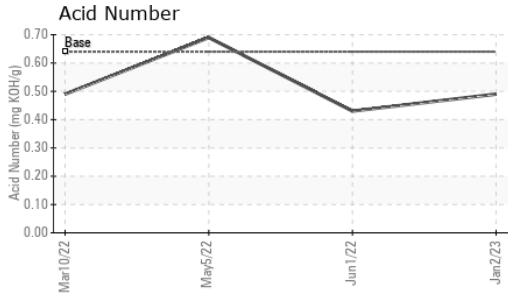
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<b>9</b>	2	20
Sodium	ppm	ASTM D5185m		<b>4</b>	<1	2
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	0

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.64	<b>0.49</b>	0.43	0.69

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	VLITE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual		<b>NEG</b>	NEG	NEG

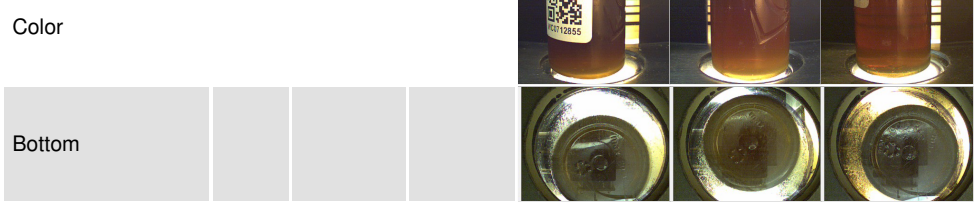


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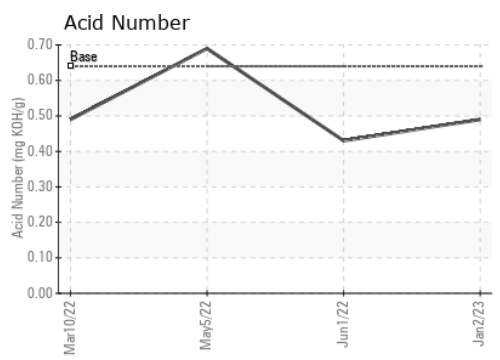
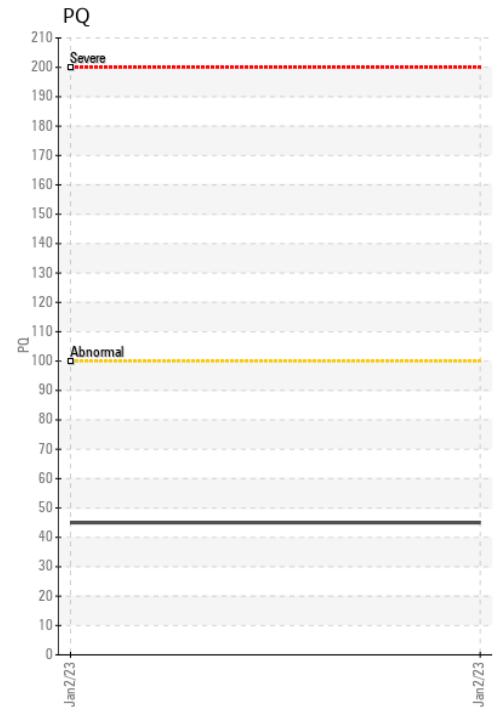
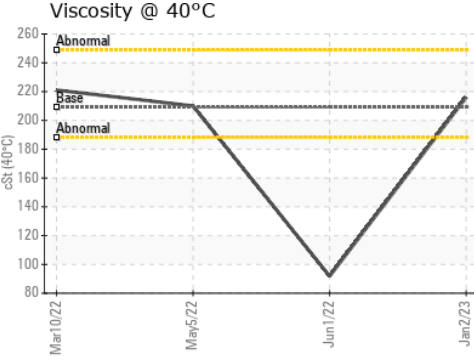
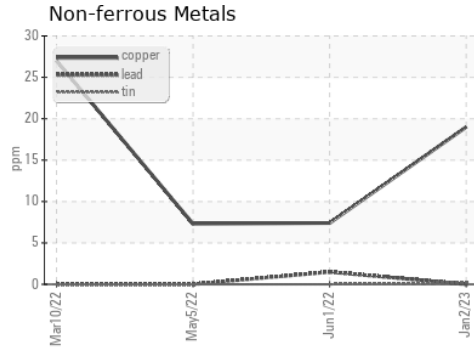
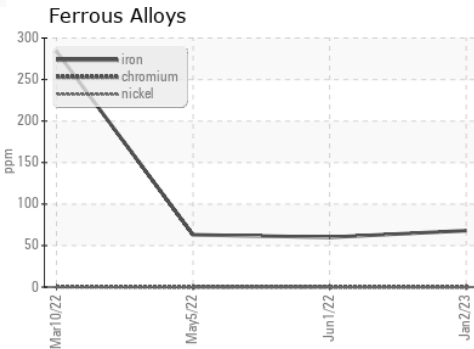


FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	209	216 ▲	91.82	210

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0712855 **Received** : 24 Jan 2023  
**Lab Number** : **05748186** **Diagnosed** : 25 Jan 2023  
**Unique Number** : 10307790 **Diagnostician** : Don Baldrige  
**Test Package** : PLANT

**SEATRAX INC**  
 308 GALBERT ROAD  
 LAFAYETTE, LA  
 US 70506  
 Contact: LORIA HUVAL  
 LORIA.HUVAL@SEATRAX.COM  
 T:  
 F: (337)706-7901

Certificate L2367  
 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)