



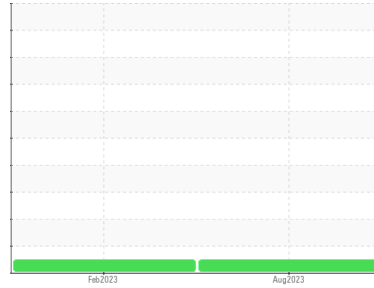
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
[18082]
 Machine Id
40-209
 Component
Hydraulic System
 Fluid
ConocoPhillips mega flow aw46 (--- GAL)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: ConocoPhillips mega flow aw46)

Wear

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. 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		WC0793332	WC0754770	---
Sample Date	Client Info		10 Aug 2023	10 Feb 2023	---
Machine Age	hrs	Client Info	3154	2618	---
Oil Age	hrs	Client Info	536	618	---
Oil Changed	Client Info		Not Chngd	Not Chngd	---
Sample Status			NORMAL	NORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >32	6	2	---
Chromium	ppm	ASTM D5185m >9	0	0	---
Nickel	ppm	ASTM D5185m >5	0	0	---
Titanium	ppm	ASTM D5185m	0	0	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >9	<1	<1	---
Lead	ppm	ASTM D5185m >28	0	0	---
Copper	ppm	ASTM D5185m >50	<1	<1	---
Tin	ppm	ASTM D5185m >5	0	0	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	---
Barium	ppm	ASTM D5185m	0	3	---
Molybdenum	ppm	ASTM D5185m	0	0	---
Manganese	ppm	ASTM D5185m	0	1	---
Magnesium	ppm	ASTM D5185m	<1	9	---
Calcium	ppm	ASTM D5185m	16	3	---
Phosphorus	ppm	ASTM D5185m	445	444	---
Zinc	ppm	ASTM D5185m	19	41	---
Sulfur	ppm	ASTM D5185m	108	0	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >11	1	2	---
Sodium	ppm	ASTM D5185m >21	0	0	---
Potassium	ppm	ASTM D5185m >20	0	0	---

FLUID CLEANLINESS

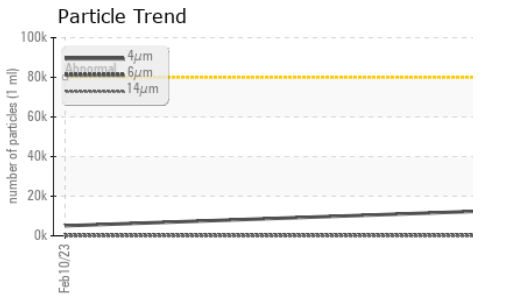
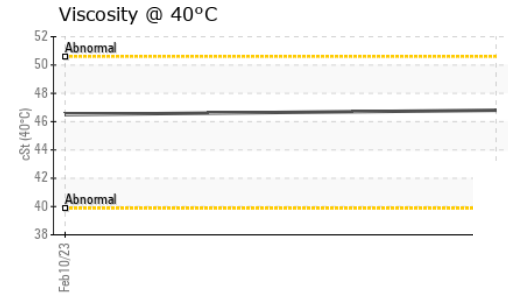
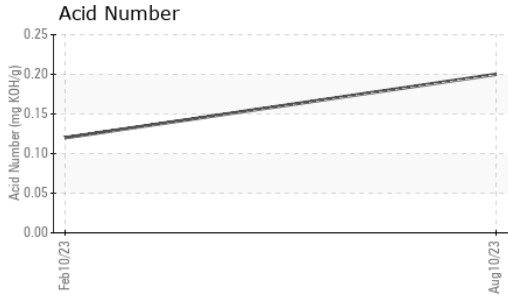
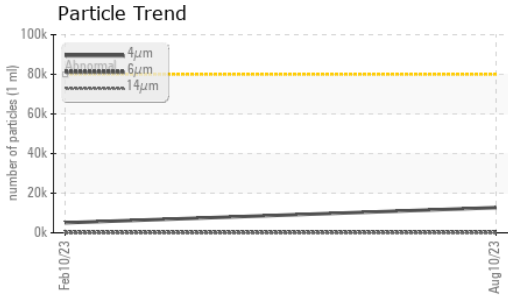
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>80000	12711	5065	---
Particles >6µm	ASTM D7647	>20000	288	204	---
Particles >14µm	ASTM D7647	>640	13	15	---
Particles >21µm	ASTM D7647	>160	3	6	---
Particles >38µm	ASTM D7647	>40	0	0	---
Particles >71µm	ASTM D7647	>10	0	0	---
Oil Cleanliness	ISO 4406 (c)	>23/21/16	21/15/11	20/15/11	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.20	0.12	---



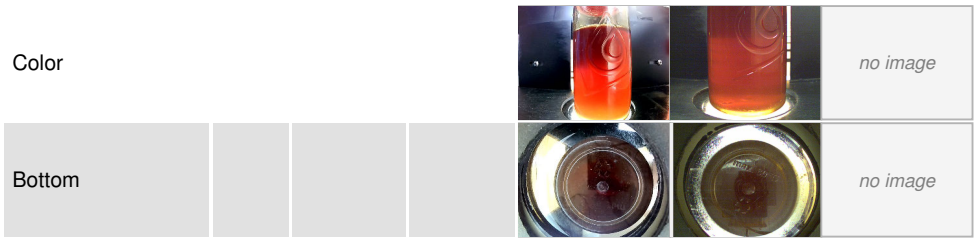
OIL ANALYSIS REPORT



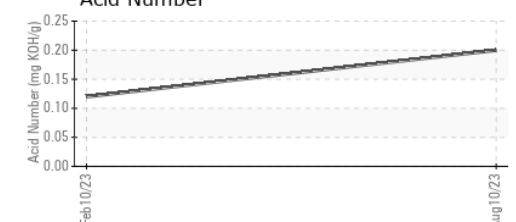
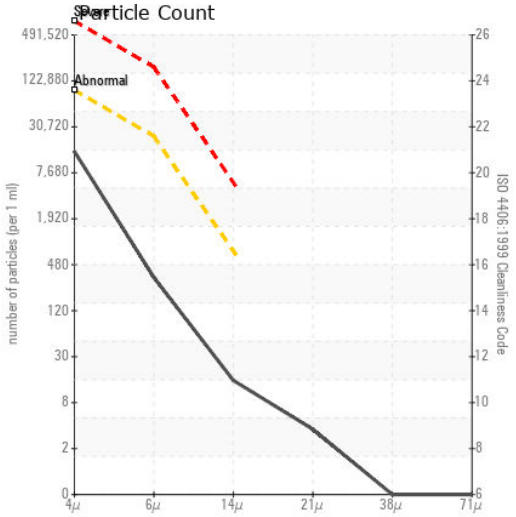
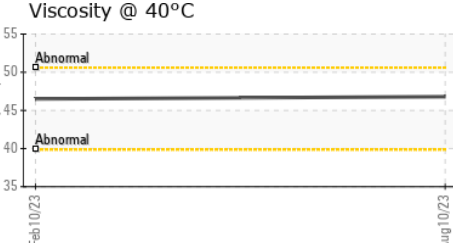
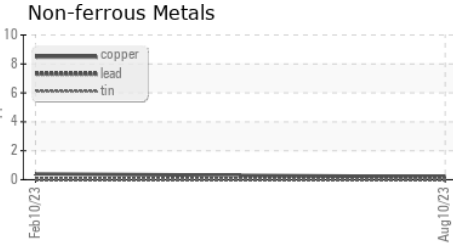
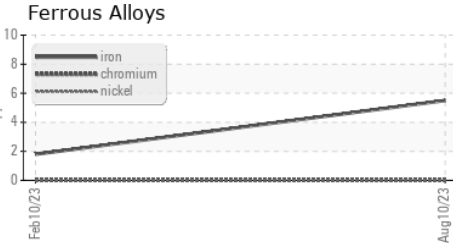
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.075	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46.8	46.5	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0793332 **Received** : 18 Aug 2023
Lab Number : **05928747** **Diagnosed** : 22 Aug 2023
Unique Number : 10608694 **Diagnostician** : Don Baldrige
Test Package : CONST

MANHATTAN ROAD AND BRIDGE
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 T:
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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)