

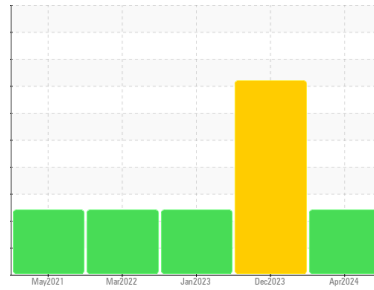


OIL ANALYSIS REPORT



Area
[22031]
 Machine Id
40-142
 Component
Left Final Drive
 Fluid
CONOCO PHILLIPS GUARDOL ECT 15W40 (--- GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation
 We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

Wear
 All component wear rates are normal.

Contamination
 Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition
 The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0836207	WC0836252	WC0754800
Sample Date	Client Info		08 Apr 2024	05 Dec 2023	17 Jan 2023
Machine Age	hrs	Client Info	8218	7895	7425
Oil Age	hrs	Client Info	1951	1627	1158
Oil Changed	Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status			ABNORMAL	SEVERE	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	177	▲ 525	296
Chromium	ppm	ASTM D5185m >10	6	▲ 16	8
Nickel	ppm	ASTM D5185m >10	1	2	2
Titanium	ppm	ASTM D5185m	2	4	2
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	23	● 54	● 32
Lead	ppm	ASTM D5185m >25	<1	<1	2
Copper	ppm	ASTM D5185m >50	2	5	3
Tin	ppm	ASTM D5185m >10	<1	0	<1
Vanadium	ppm	ASTM D5185m	1	1	<1
Cadmium	ppm	ASTM D5185m	<1	<1	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 85	101	105	113
Barium	ppm	ASTM D5185m	1	0	0
Molybdenum	ppm	ASTM D5185m	8	4	3
Manganese	ppm	ASTM D5185m	2	6	3
Magnesium	ppm	ASTM D5185m 350	719	678	733
Calcium	ppm	ASTM D5185m 1800	1313	1299	1495
Phosphorus	ppm	ASTM D5185m 1000	1001	1049	1102
Zinc	ppm	ASTM D5185m 1100	1180	1192	1319
Sulfur	ppm	ASTM D5185m 3500	3983	4068	4801

CONTAMINANTS

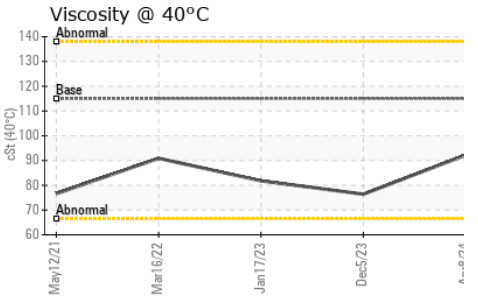
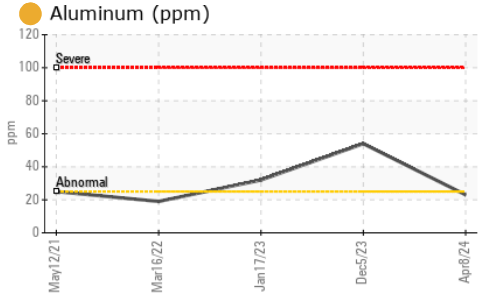
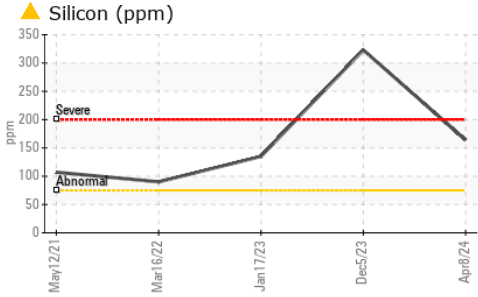
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	▲ 164	▲ 323	▲ 135
Sodium	ppm	ASTM D5185m	6	3	5
Potassium	ppm	ASTM D5185m >20	10	18	11

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	MODER	NONE	LIGHT
Debris	scalar	*Visual NONE	NONE	NONE	VLITE
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 >0.2	NEG	NEG	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG



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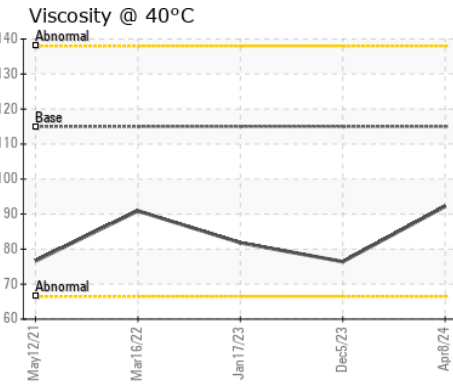
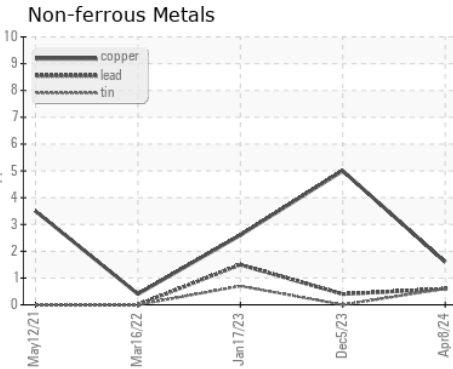
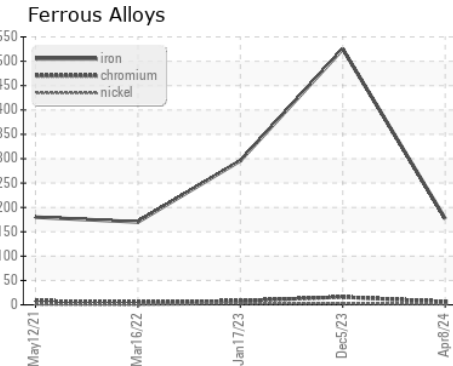


FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	115	92.2	76.4	81.8

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color				no image	no image	no image
Bottom				no image	no image	no image

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WC0836207

Lab Number : 06149701

Unique Number : 10979779

Test Package : CONST

Received : 15 Apr 2024

Tested : 16 Apr 2024

Diagnosed : 18 Apr 2024 - Don Baldrige

MANHATTAN ROAD AND BRIDGE

5601 S 122ND E AVE

TULSA, OK

US 74146

Contact: WILL ANDERSON

will.anderson@manhattanrb.com

T:

F:

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)