

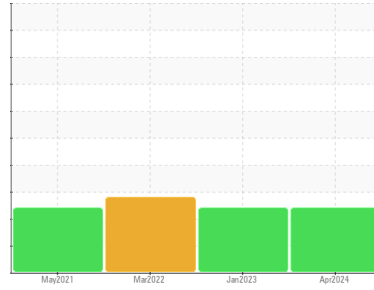


OIL ANALYSIS REPORT



Area
[22031]
 Machine Id
40-142
 Component
Right 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		WC0923360	WC0754799	WC0619447
Sample Date	Client Info		08 Apr 2024	24 Jan 2023	16 Mar 2022
Machine Age	hrs	Client Info	8218	7425	6945
Oil Age	hrs	Client Info	1951	910	0
Oil Changed	Client Info		Not Chngd	Not Chngd	N/A
Sample Status			ABNORMAL	ABNORMAL	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	148	368	270
Chromium	ppm	ASTM D5185m	>10	4	10	8
Nickel	ppm	ASTM D5185m	>10	1	3	<1
Titanium	ppm	ASTM D5185m		2	3	2
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	18	46	34
Lead	ppm	ASTM D5185m	>25	<1	2	0
Copper	ppm	ASTM D5185m	>50	2	3	<1
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Antimony	ppm	ASTM D5185m	>5	---	---	---
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		<1	<1	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	85	222	110	126
Barium	ppm	ASTM D5185m		3	<1	0
Molybdenum	ppm	ASTM D5185m		211	3	3
Manganese	ppm	ASTM D5185m		2	4	2
Magnesium	ppm	ASTM D5185m	350	692	726	721
Calcium	ppm	ASTM D5185m	1800	1160	1488	1470
Phosphorus	ppm	ASTM D5185m	1000	799	1100	1141
Zinc	ppm	ASTM D5185m	1100	873	1314	1307
Sulfur	ppm	ASTM D5185m	3500	7074	4938	3326

CONTAMINANTS

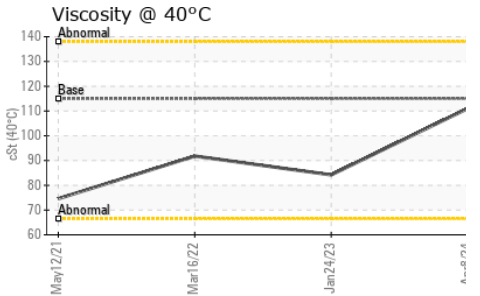
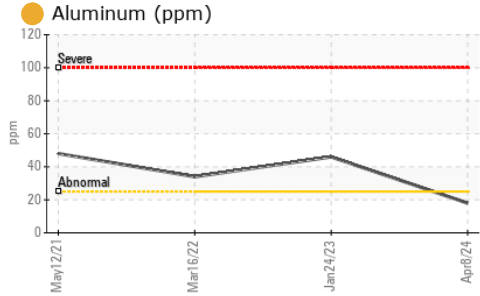
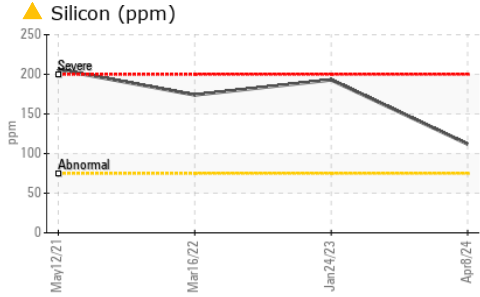
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>75	112	193	174
Sodium	ppm	ASTM D5185m		6	5	5
Potassium	ppm	ASTM D5185m	>20	7	13	11

VISUAL

	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	LIGHT	LIGHT	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	MODER
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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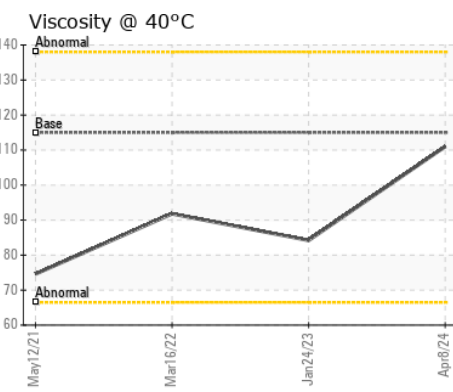
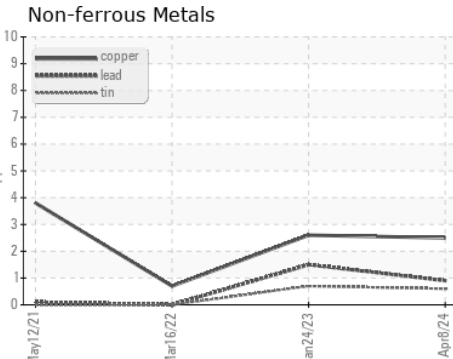
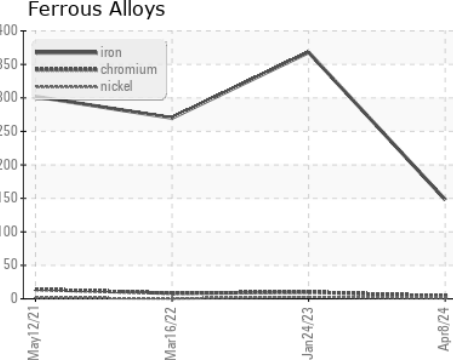


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	115	111	84.2

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



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0923360 **Received** : 15 Apr 2024
Lab Number : **06149700** **Tested** : 16 Apr 2024
Unique Number : 10979778 **Diagnosed** : 18 Apr 2024 - Don Baldrige
Test Package : CONST

MANHATTAN ROAD AND BRIDGE
 5601 S 122ND E AVE
 TULSA, OK
 US 74146
 Contact: WILL ANDERSON
 will.anderson@manhattanrb.com

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)