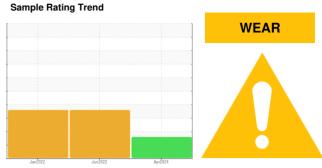


OIL ANALYSIS REPORT

Area [22462] 30-42

Component Hydraulic System

CONOCO PHILLIPS GUARDOL ECT 15W40 (--- GAL)



DIAGNOSIS

Recommendation

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

Wear

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

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

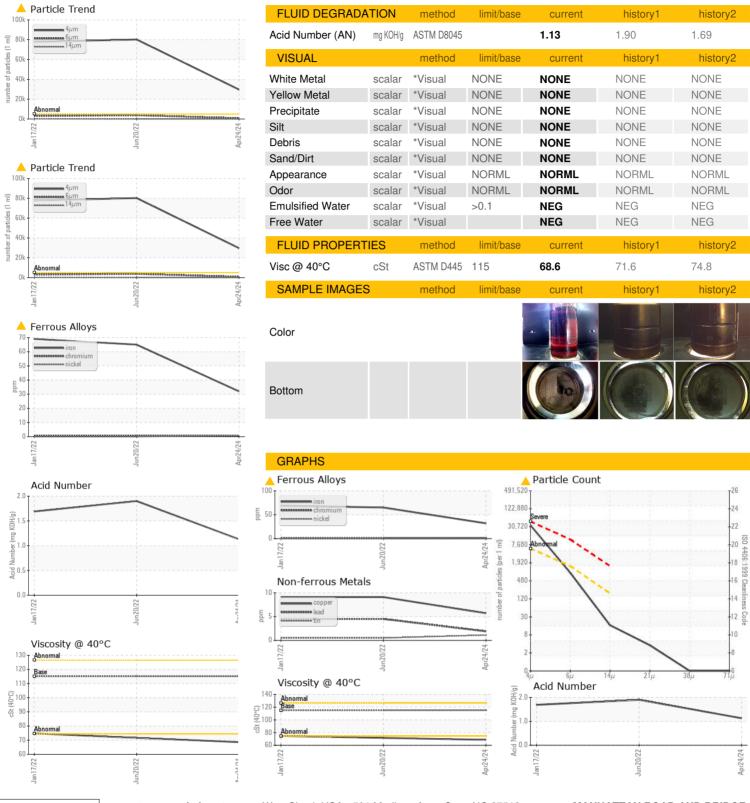
Fluid Condition

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

(GAL)		Jan	Jan2022 Jun2022 Apr2024			
SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0923343	WC0619255	WC0619484
Sample Date		Client Info		24 Apr 2024	20 Jun 2022	17 Jan 2022
Machine Age	hrs	Client Info		4776	4097	3845
Oil Age	hrs	Client Info		679	3845	500
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	4 32	△ 65	△ 69
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		2	<1	<1
Silver	ppm	ASTM D5185m		<1	<1	0
Aluminum	ppm	ASTM D5185m	>10	4	8	8
Lead	ppm	ASTM D5185m	>10	2	4	4
Copper	ppm	ASTM D5185m	>75	6	9	9
	ppm	ASTM D5185m	>10	1	<1	<1
Antimony	ppm	ASTM D5185m				<1
	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	85	63	100	104
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		15	10	5
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	350	377	488	455
Calcium	ppm	ASTM D5185m	1800	1021	1811	2014
Phosphorus	ppm	ASTM D5185m	1000	753	1050	1061
	ppm	ASTM D5185m	1100	791	1233	1225
Sulfur	ppm	ASTM D5185m	3500	3877	3930	3215
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	18	△ 35	▲ 38
Sodium	ppm	ASTM D5185m		<1	4	4
	ppm	ASTM D5185m	>20	3	3	2
FLUID CLEANLINE	SS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	29683	▲ 80239	<u></u> 77813
Particles >6µm		ASTM D7647	>1300	777	▲ 3762	▲ 3067
Particles >14µm		ASTM D7647	>160	14	41	200
Particles >21µm		ASTM D7647	>40	3	11	48
Particles >38µm		ASTM D7647	>10	0	1	3
Particles >71µm		ASTM D7647		0	1	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>22/17/11</u>	<u>4</u> 24/19/13	23/19/15



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No. Lab Number

: WC0923343 : 06183310 Unique Number : 11034636

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 May 2024 **Tested** : 20 May 2024 Diagnosed : 21 May 2024 - Don Baldridge

Test Package : CONST

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)

MANHATTAN ROAD AND BRIDGE

5601 S 122ND E AVE TULSA, OK US 74146

Contact: BEN CALDWELL kevin.marson@wearcheck.com

T: (918)728-5749