

OIL ANALYSIS REPORT

[18745] 30-81

Component **Hydraulic System**

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

Sample Rating Trend



Recommendation

Resample at the next service interval to monitor.

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.

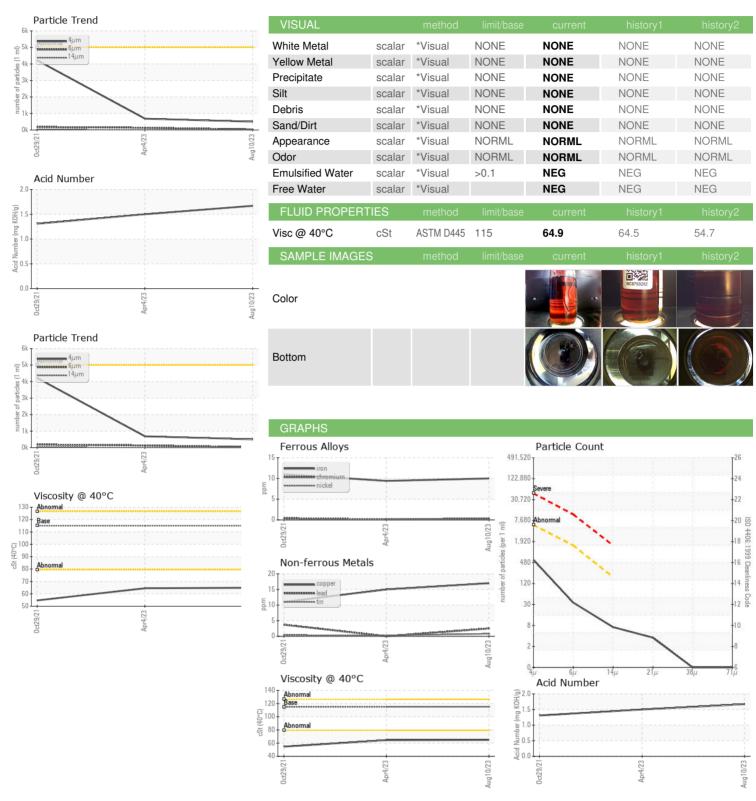
Fluid Condition

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

U (GAL)		Oct2021 Apr2023 Aug2023				
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0793344	WC0793262	WC0601346
Sample Date		Client Info		10 Aug 2023	04 Apr 2023	29 Oct 2021
Machine Age	hrs	Client Info		5694	5174	4191
Oil Age	hrs	Client Info		1503	1023	2000
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	10	9	11
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>10	3	2	<1
Lead	ppm	ASTM D5185m	>10	2	0	4
Copper	ppm	ASTM D5185m	>75	17	15	11
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	85	171	199	243
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		22	24	40
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	350	395	427	140
Calcium	ppm	ASTM D5185m	1800	1915	1995	2593
Phosphorus	ppm	ASTM D5185m	1000	1000	1057	999
Zinc	ppm	ASTM D5185m	1100	1144	1255	1092
Sulfur	ppm	ASTM D5185m	3500	4246	4536	3472
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	8	9	9
Sodium	ppm	ASTM D5185m		<1	3	0
Potassium	ppm	ASTM D5185m	>20	3	<1	2
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000	503	686	4220
Particles >6µm		ASTM D7647	>1300	30	135	186
Particles >14μm		ASTM D7647	>160	6	15	20
Particles >21µm		ASTM D7647	>40	3	4	2
Particles >38μm		ASTM D7647	>10	0	0	0
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/12/10	17/14/11	19/15/11
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.67	1.50	1.308



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number

Unique Number Test Package : CONST To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0793344 : 05928748

: 10608695

Received Diagnosed Diagnostician

: 18 Aug 2023 : 22 Aug 2023 : Don Baldridge MANHATTAN ROAD AND BRIDGE

5601 S 122ND E AVE TULSA, OK US 74146

Contact: BEN CALDWELL kevin.marson@wearcheck.com

* - 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) T: (918)728-5749