

OIL ANALYSIS REPORT

Area [20125] 30-86

Component **Hydraulic System**

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

Sample Rating Trend



DIAGNOSIS	SAN
Recommendation	Samp

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

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

) (GAL)		Se	2022	Apr2023 Nov2	023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date		Client Info		WC0836238 02 Nov 2023	WC0750218 20 Apr 2023	WC0620119 19 Sep 2022
Machine Age	hrs	Client Info		3441	3141	2838
Oil Age	hrs	Client Info		1441	0	0
Oil Changed	0	Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	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	10	15	11
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	3	<1	2
Lead	ppm	ASTM D5185m	>10	3	4	4
Copper	ppm	ASTM D5185m	>75	14	15	11
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
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	292	373	247
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		45	54	45
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	350	26	26	27
Calcium	ppm	ASTM D5185m	1800	2851	3268	2912
Phosphorus	ppm	ASTM D5185m	1000	943	1073	881
Zinc	ppm	ASTM D5185m	1100	1089	1258	1123
Sulfur	ppm	ASTM D5185m	3500	3915	5129	4530
CONTAMINANTS	8	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	9	11	8
Sodium	ppm	ASTM D5185m		0	2	1
Potassium	ppm	ASTM D5185m	>20	0	3	<1
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	3041	1329	1426
Particles >6µm		ASTM D7647	>1300	82	245	348
Particles >14μm		ASTM D7647	>160	8	22	49
Particles >21µm		ASTM D7647		3	4	7
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/14/10	18/15/12	18/16/13
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.22	1.43	1.58



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Laboratory Sample No. Lab Number **Unique Number**

: 06010156 : 10749300

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0836238 Received Diagnosed

: 20 Nov 2023 Diagnostician : Don Baldridge

: 16 Nov 2023

Test Package : CONST (Additional Tests: PrtCount) 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

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