

OIL ANALYSIS REPORT

Area [18976] 80-232

Component **Hydraulic System**

CONOCOPHILLIPS POWERTRAN (--- GAL)

Sample Rating Trend



Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

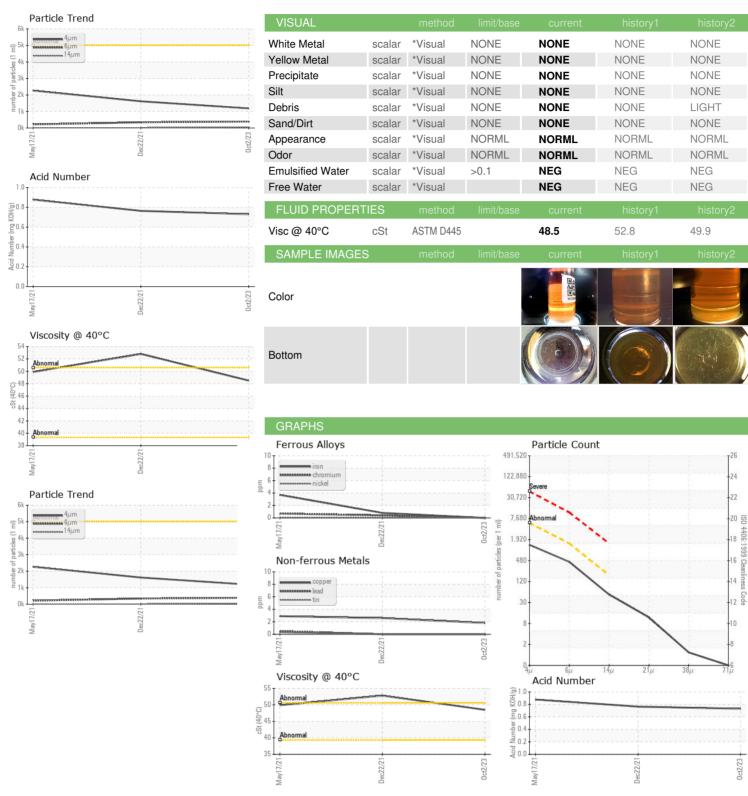
Fluid Condition

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

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SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0836097	WC0619505	WC0548779
Sample Date		Client Info		02 Oct 2023	22 Dec 2021	17 May 2021
Machine Age	hrs	Client Info		4019	2516	1978
Oil Age	hrs	Client Info		2041	538	1000
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	<1	4
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>10	1	1	2
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>75	2	3	3
Tin	ppm		>10	0	0	<1
Antimony	ppm	ASTM D5185m	7.0		0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		1	2	2
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		92	120	114
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		3	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		58	18	16
Calcium	ppm	ASTM D5185m		2797	3150	3493
Phosphorus	ppm	ASTM D5185m		1009	989	1103
Zinc	ppm	ASTM D5185m		1225	1360	1335
Sulfur	ppm	ASTM D5185m		4289	5214	6915
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	12	15	13
Sodium	ppm	ASTM D5185m		0	6	6
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1186	1617	2264
Particles >6µm		ASTM D7647	>1300	387	345	216
Particles >14µm		ASTM D7647	>160	45	16	16
Particles >21µm		ASTM D7647	>40	10	4	6
Particles >38µm		ASTM D7647	>10	1	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/16/13	18/16/11	18/15/11
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.73	0.764	0.877



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Certificate L2367

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

: 06010157 : 10749301

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0836097

Received Diagnosed Diagnostician

: Wes Davis Test Package : CONST (Additional Tests: PrtCount)

: 16 Nov 2023

: 17 Nov 2023

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)

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