

OIL ANALYSIS REPORT

Sample Rating Trend









Area [22705] 30-96L Hydraulic System

CONOCO PHILLIPS GUARD

DIAGNOSIS

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.

RDOL ECT 15W40 (GAL)	Nov	2022		24	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0923381	WC0836155	WC0754802
Sample Date		Client Info		24 Apr 2024	04 Jan 2024	10 Nov 2022
Machine Age	hrs	Client Info		3118	2842	1869
Oil Age	hrs	Client Info		1118	973	1869
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	J	method	limit/base	current	history1	history2
Water		WC Method	>0.075	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>23	4	3	6
Chromium	ppm	ASTM D5185m	>9	1	<1	2
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		1	0	0
Aluminum	ppm	ASTM D5185m	>9	3	2	2
Lead	ppm	ASTM D5185m	>28	<1	0	1
Copper	ppm	ASTM D5185m	>51	6	8	14
Tin	ppm	ASTM D5185m	>5	<1	0	0
Vanadium	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	85	63	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		10	15	<1
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	350	465	309	3
Calcium	ppm	ASTM D5185m	1800	1115	1003	77
Phosphorus	ppm	ASTM D5185m	1000	907	932	582
Zinc	ppm	ASTM D5185m	1100	1070	972	872
Sulfur	ppm	ASTM D5185m	3500	3401	2706	1599
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ACTM DE10Em				
		ASTM D5185m	>31	8	6	8
Sodium	ppm	ASTM D5185m	>21	3	2	0
Sodium Potassium	ppm		>21 >20			
Sodium Potassium FLUID CLEANLIN	ppm	ASTM D5185m ASTM D5185m method	>21 >20 limit/base	3 4 current	2 3 history1	0 5 history2
Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm	ASTM D5185m ASTM D5185m method ASTM D7647	>21 >20 limit/base >80000	3 4 current 2072	2 3 history1 413	0 5 history2 1080
Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm	ASTM D5185m ASTM D5185m method ASTM D7647 ASTM D7647	>21 >20 limit/base >80000 >20000	3 4 current 2072 234	2 3 history1 413 118	0 5 history2 1080 80
Sodium Potassium FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm	ppm	ASTM D5185m ASTM D5185m method ASTM D7647 ASTM D7647 ASTM D7647	>21 >20 limit/base >80000 >20000 >640	3 4 current 2072 234 11	2 3 history1 413 118 15	0 5 history2 1080 80 7
Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm	ASTM D5185m ASTM D5185m method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>21 >20 limit/base >80000 >20000 >640 >160	3 4 current 2072 234 11 7	2 3 history1 413 118 15 4	0 5 history2 1080 80 7
Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm	ASTM D5185m ASTM D5185m method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>21 >20 limit/base >80000 >20000 >640 >160 >40	3 4 current 2072 234 11 7 5	2 3 history1 413 118 15 4	0 5 history2 1080 80 7 3
Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ppm	ASTM D5185m ASTM D5185m method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>21 >20 limit/base >80000 >20000 >640 >160 >40 >10	3 4 current 2072 234 11 7 5	2 3 history1 413 118 15 4 1	0 5 history2 1080 80 7 3 0
Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ESS	ASTM D5185m ASTM D5185m method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>21 >20 limit/base >80000 >20000 >640 >160 >40	3 4 current 2072 234 11 7 5	2 3 history1 413 118 15 4	0 5 history2 1080 80 7 3

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OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number : 06183302 Unique Number : 11034628 Test Package : CONST

40

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0923381 Received

Tested

Jan4/24

: 17 May 2024 : 20 May 2024

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Diagnosed : 20 May 2024 - Wes Davis

Contact: BEN CALDWELL kevin.marson@wearcheck.com T: (918)728-5749

5601 S 122ND E AVE

TULSA, OK

US 74146

MANHATTAN ROAD AND BRIDGE

To discuss this sample report, contact Customer Service at 1-800-237-1369. st - 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)

Report Id: MANTUL [WUSCAR] 06183302 (Generated: 05/20/2024 13:47:12) Rev: 1