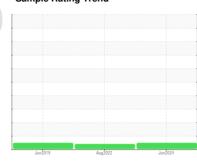


OIL ANALYSIS REPORT

Sample Rating Trend







LINE 0 (S/N 5047)

Component Hydraulic System

ESSO NUTO H ISO 46 (--- GAL)

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Recommendation

Resample at the next service interval to monitor.

Wear

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.

	Jun2019 Aug2022 Jun2024						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0870260	WC0633608	WCI2340969	
Sample Date		Client Info		19 Jun 2024	29 Aug 2022	27 Jun 2019	
Machine Age	mths	Client Info		0	24	0	
Oil Age	mths	Client Info		16	24	0	
Oil Changed		Client Info		N/A	Changed	N/A	
Sample Status				NORMAL	ATTENTION	NORMAL	
CONTAMINATION	V	method	limit/base	current	history1	history2	
Water		WC Method	>0.05	NEG	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>40	9	8	4	
Chromium	ppm	ASTM D5185m	>4	<1	0	<1	
Nickel	ppm	ASTM D5185m	>20	<1	0	<1	
Titanium	ppm	ASTM D5185m		<1	0	0	
Silver	ppm	ASTM D5185m		<1	0	0	
Aluminum	ppm	ASTM D5185m	>4	3	<1	<1	
Lead	ppm	ASTM D5185m	>10	<1	0	0	
Copper	ppm	ASTM D5185m	>60	8	5	1	
Tin	ppm	ASTM D5185m	>4	1	0	<1	
Antimony	ppm	ASTM D5185m				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	0	0	0	<1	
Barium	ppm	ASTM D5185m	0	1	0	<1	
Molybdenum	ppm	ASTM D5185m	0	<1	0	0	
Manganese	ppm	ASTM D5185m		<1	0	0	
Magnesium	ppm	ASTM D5185m	5	2	0	<1	
Calcium	ppm	ASTM D5185m	50	124	106	138	
Phosphorus	ppm	ASTM D5185m	330	519	452	478	
Zinc	ppm	ASTM D5185m	410	704	661	690	
Sulfur	ppm	ASTM D5185m	2700	7848	7770	10248	
CONTAMINANTS	;	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>20	2	1	1	
Sodium	ppm	ASTM D5185m		0	1	1	
Potassium	ppm	ASTM D5185m	>20	1	0	0	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>5000	839	1261	304	
Particles >6µm		ASTM D7647	>1300	287	105	99	
Particles >14μm		ASTM D7647	>160	21	9	12	
Particles >21µm		ASTM D7647	>40	5	4	4	
Particles >38µm		ASTM D7647	>10	0	0	0	
Particles >71μm		ASTM D7647	>3	0	0	0	
0' 0		100 4400 ()	10/17/11	45/45/46	47/44/40	454444	

ISO 4406 (c) >19/17/14

Oil Cleanliness

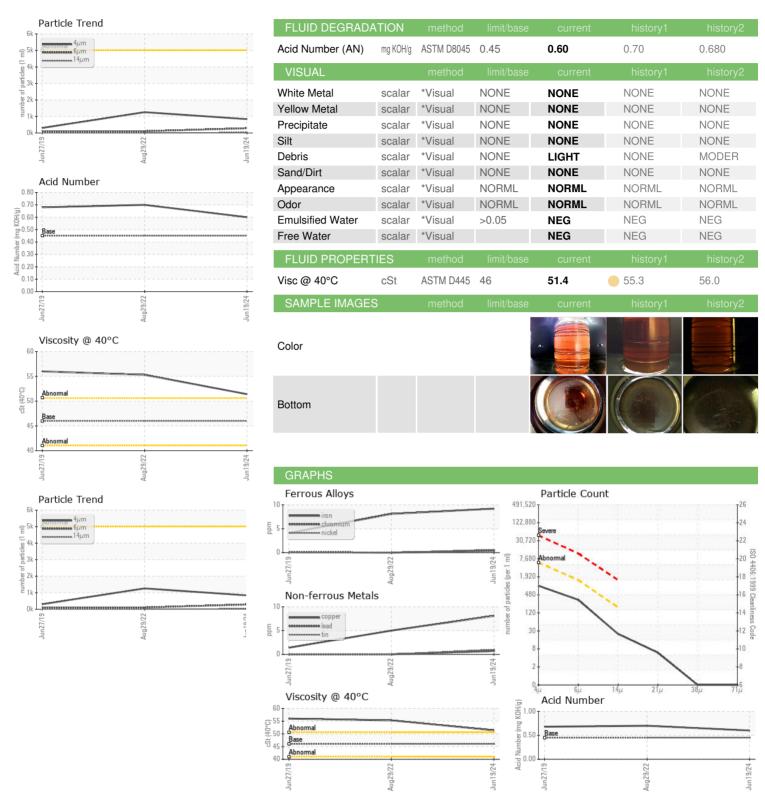
17/14/10

17/15/12

15/14/11



OIL ANALYSIS REPORT







Certificate 12367

Report Id: CONTHONC [WUSCAR] 06216809 (Generated: 06/24/2024 15:22:32) Rev: 1

Laboratory Sample No. Lab Number

: WC0870260 : 06216809 Unique Number : 11089673

Test Package : IND 2

 st - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Jun 2024 **Tested** : 24 Jun 2024

Diagnosed : 24 Jun 2024 - Don Baldridge

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

Contact: BERNIE GRAHAM bernie.graham@altiumpkg.com T: (336)472-1500

Altium Packaging - THOMASVILLE - Plant 1071A

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: BERNIE GRAHAM - CONTHONC

1408 UNITY ST

US 27360

THOMASVILLE, NC

F: (336)472-5531