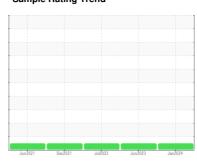


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id 80-242 Component Hydraulic System

{not provided} (--- GAL)

DIAGNOSIS	

### Recommendation

Resample at the next service interval to monitor.

#### Wear

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.

		Jun 2021	Dec2021	Jul2022 Jun2023	Jan 2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0818723	WC0818612	WC0709414
Sample Date		Client Info		09 Jan 2024	23 Jun 2023	18 Jul 2022
Machine Age	hrs	Client Info		3308	3308	2415
Oil Age	hrs	Client Info		1941	0	474
Oil Changed		Client Info		N/A	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	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	1	4	3
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>10	1	<1	2
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>75	2	2	2
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Antimony	ppm	ASTM D5185m				
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		113	88	119
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		0	1	1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		25	16	20
Calcium	ppm	ASTM D5185m		3252	2288	3327
Phosphorus	ppm	ASTM D5185m		1046	743	1047
Zinc	ppm	ASTM D5185m		1323	961	1317
Sulfur	ppm	ASTM D5185m		3855	3909	5536
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	17	11	15
Sodium	ppm	ASTM D5185m		5	6	8
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1036	3148	3671
Particles >6µm		ASTM D7647	>1300	244	443	692
Particles >14µm		ASTM D7647	>160	21	37	65
Particles >21µm		ASTM D7647	>40	5	11	15
Particles >38µm		ASTM D7647	>10	1	1	1
Particles >71µm		ASTM D7647		0	0	0

ISO 4406 (c) >19/17/14

17/15/12

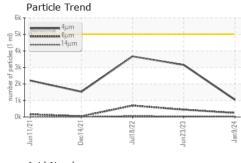
Oil Cleanliness

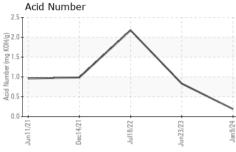
19/16/12

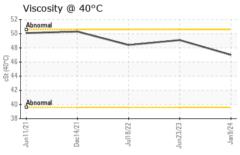
19/17/13

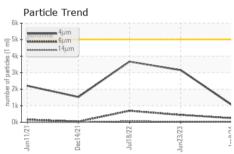


## **OIL ANALYSIS REPORT**

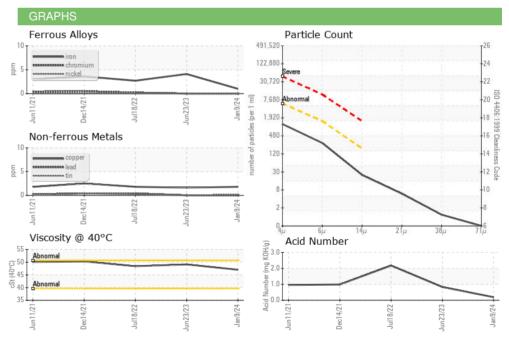








FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.19	0.83	2.176
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		47.0	49.1	48.4
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color					330	0408







Certificate L2367

Laboratory

Sample No.

: WC0818723 Lab Number : 06077634 Unique Number: 10859725 Test Package : CONST

**Bottom** 

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

Diagnosed

: 02 Feb 2024 : 04 Feb 2024 - Don Baldridge

:01 Feb 2024

MANHATTAN ROAD AND BRIDGE 5601 S 122ND E AVE TULSA, OK

US 74146 Contact: BEN CALDWELL

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

\* - 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)

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

Submitted By: COLTON DOSHIER