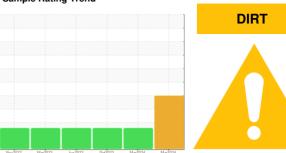


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

156-52-33-01 (S/N 1433)

Component Hydraulic System

**ROYAL PURPLE SYNERGY 90/150 (1320 GAL)** 

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

Gear wear is indicated. Bearing and/or bushing wear is indicated.

## Contamination

Elemental level of silicon (Si) above normal.

### **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0822432	WC0878431	WC0822435
Sample Date		Client Info		31 Mar 2024	12 Mar 2024	21 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Filtered	Filtered	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION	١	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	>20	<u> </u>	<u>235</u>	<u>^</u> 237
Chromium	ppm	ASTM D5185m	>20	6	18	12
Nickel	ppm	ASTM D5185m	>20	8	17	14
Titanium	ppm	ASTM D5185m		<u> 11</u>	16	15
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	3	2
Lead	ppm	ASTM D5185m	>20	<1	2	2
Copper	ppm	ASTM D5185m	>20	<u>^</u> 60	<b>△</b> 68	<b>△</b> 66
Tin	ppm	ASTM D5185m	>20	5	7	8
Vanadium	ppm	ASTM D5185m		<1	1	0
Cadmium	ppm	ASTM D5185m		1	2	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	1	0
Molybdenum	ppm	ASTM D5185m		<1	2	1
Manganese	ppm	ASTM D5185m		<1	2	2
Magnesium	ppm	ASTM D5185m		<1	2	2
Calcium	ppm	ASTM D5185m		6	11	8
Phosphorus	ppm	ASTM D5185m	200	491	402	305
Zinc	ppm	ASTM D5185m		11	23	25
Sulfur	ppm	ASTM D5185m		17041	16132	12378
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<u> </u>	17	6
Sodium	ppm	ASTM D5185m		3	1	4
Potassium	ppm	ASTM D5185m	>20	0	2	0
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1 61	0.92	0.77	0.53



# **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0822432 : 06137588 Unique Number : 10957053

Test Package : IND 2

Received : 03 Apr 2024 Tested : 04 Apr 2024

Diagnosed : 05 Apr 2024 - Don Baldridge

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)

ATI SPECIALTY MATERIALS - MELT & REMELT

2020 ASHCRAFT AVE MONROE, NC

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