

## **OIL ANALYSIS REPORT**

## Sample Rating Trend



ISO



# Refinery Machine Id #1 Finished Starch Aggitator

Component
Case Drain Gearbox

**ROYAL PURPLE SYNERGY 90/220 (5 GAL)** 

#### DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil.

#### **Fluid Condition**

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

)		b2018 Dec20	18 Sep2019 Apr2020	Jan 2021 Oct 2021 Jul 2022 Apri	2023 Jan 207	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0886181	WC0816891	WC0757596
Sample Date		Client Info		23 Jan 2024	30 Oct 2023	26 Jul 2023
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	ATTENTION	ABNORMAL
CONTAMINATION	٧	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	6	5	6
Chromium	ppm	ASTM D5185m	>15	0	0	<1
Nickel	ppm	ASTM D5185m	>15	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	2
Aluminum	ppm	ASTM D5185m	>25	17	17	9
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	0	<1	0
Tin	ppm	ASTM D5185m	>25	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		0	<1	3
Calcium	ppm	ASTM D5185m		3	4	1
Phosphorus	ppm	ASTM D5185m	370	417	430	405
Zinc	ppm	ASTM D5185m		14	16	20
Sulfur	ppm	ASTM D5185m		12264	13293	16462
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	11	11	3
Sodium	ppm	ASTM D5185m		<1	<1	0
Potassium	ppm	ASTM D5185m	>20	0	<1	3
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<b>39418</b>	▲ 38866	<u></u> 47141
Particles >6µm		ASTM D7647	>5000	4194	3118	▲ 5523
Particles >14μm		ASTM D7647	>640	123	55	453
Particles >21µm		ASTM D7647	>160	23	6	85
Particles >38µm		ASTM D7647	>40	1	0	3
Particles >71µm		ASTM D7647	>10	0	0	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>22/19/14</b>	<b>2</b> 2/19/13	<b>△</b> 23/20/16
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.33	1.00	0.78	0.99



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Certificate L2367

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

: 06075747 : 10857838

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0886181 Recieved Diagnosed

: Wes Davis Diagnostician

: 31 Jan 2024

: 01 Feb 2024

Test Package : IND 2 ( Additional Tests: PrtCount )

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) **INGREDION INC** 

WINSTON SALEM PLANT, 4501 OVERDALE ROAD WINSTON SALEM, NC

US 27107

Contact: MATTHEW KING matthew.king@ingredion.com

T: F: (336)785-8809

Contact/Location: MATTHEW KING - CORWIN