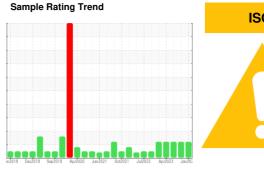


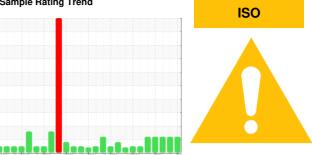
OIL ANALYSIS REPORT

Wetstarch #3 Feed Dryer

Case Drain Gearbox

ROYAL PURPLE SYNERGY 90/220 (22 GAL)





DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

Fluid Condition

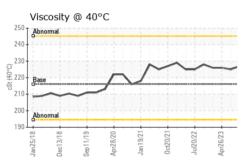
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

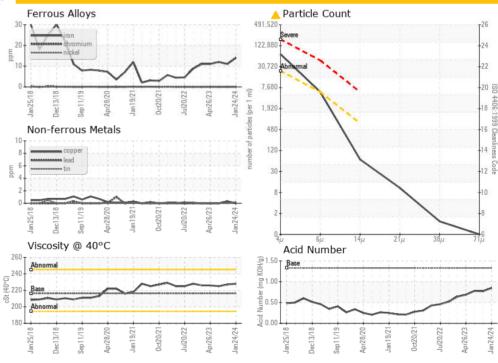
L)		in2018 Dec20	18 Sep2019 Apr2020	Jan2021 Oct2021 Jul2022 Ap	2023 Jan 202	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0886189	WC0816887	WC0757604
Sample Date		Client Info		24 Jan 2024	30 Oct 2023	26 Jul 2023
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION		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	14	11	12
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	<1	1
Lead	ppm	ASTM D5185m	>100	0	<1	0
Copper	ppm	ASTM D5185m	>200	0	<1	0
Tin	ppm	ASTM D5185m	>25	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
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		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		0	<1	4
Calcium	ppm	ASTM D5185m		5	8	11
Phosphorus	ppm	ASTM D5185m	370	373	401	361
Zinc	ppm	ASTM D5185m		0	0	9
Sulfur	ppm	ASTM D5185m		12656	13831	18269
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	5	5	4
Sodium	ppm	ASTM D5185m		1	1	0
Potassium	ppm	ASTM D5185m	>20	<1	1	2
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	△ 60615	<u></u> 50962	△ 63622
Particles >6µm		ASTM D7647	>5000	5014	▲ 5189	2 9277
Particles >14μm		ASTM D7647	>640	59	63	628
Particles >21µm		ASTM D7647	>160	9	9	139
Particles >38μm		ASTM D7647	>40	1	0	5
Particles >71μm		ASTM D7647	>10	0	0	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>23/20/13</u>	<u>\$\rightarrow\$ 23/20/13</u>	<u>\$\text{\Delta}\$ 23/20/16</u>
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.33	0.85	0.77	0.78



OIL ANALYSIS REPORT











Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0886189

: 06075751 : 10857842

Recieved : 31 Jan 2024 Diagnosed : 01 Feb 2024 : Wes Davis Diagnostician

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