

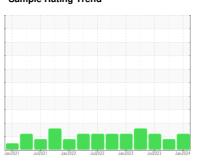
OIL ANALYSIS REPORT

Sample Rating Trend

Wetstarch Franino Planetary Gearbox

Case Drain Planetary

ROYAL PURPLE SYNERGY 140/460 (8 GAL)





DIAGNOSIS

Recommendation

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

All component wear rates are normal.

Contamination

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

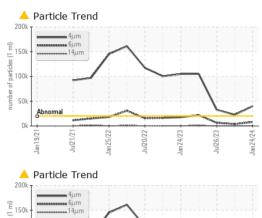
Fluid Condition

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

L)		Jan 2021	Jul2021 Jan2022	Jul2022 Jan2023 Jul2023	Jan2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0886152	WC0816903	WC0635859
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	ATTENTION	ATTENTION
CONTAMINATION	N	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	>150	51	39	40
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	<1	<1	1
Lead	ppm	ASTM D5185m	>100	0	0	1
Copper	ppm	ASTM D5185m	>50	0	<1	0
Tin	ppm	ASTM D5185m	>10	<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	2
Calcium	ppm	ASTM D5185m		<1	4	4
Phosphorus	ppm	ASTM D5185m	200	452	521	342
Zinc	ppm	ASTM D5185m		18	15	19
Sulfur	ppm	ASTM D5185m		13140	14428	16007
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	5	6	2
Sodium	ppm	ASTM D5185m		<1	<1	0
Potassium	ppm	ASTM D5185m	>20	<1	<1	3
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	40047	▲ 22471	▲ 32939
Particles >6μm		ASTM D7647	>5000	8076	3884	▲ 6378
Particles >14µm		ASTM D7647	>640	332	187	309
Particles >21µm		ASTM D7647	>160	62	38	68
Particles >38µm		ASTM D7647	>40	2	0	3
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	23/20/16	2 2/19/15	22/20/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.2	1.11	0.99	0.95



OIL ANALYSIS REPORT



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	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES r		method	limit/base	current	historv1	history2

SAMPLE IMAGES method

cSt

limit/base

ASTM D445 439

current

453

history1

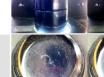
458

history2

451

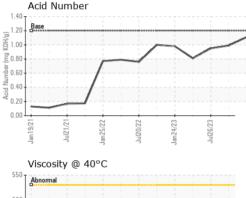
Color

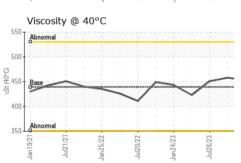
Visc @ 40°C

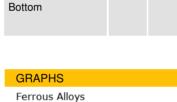


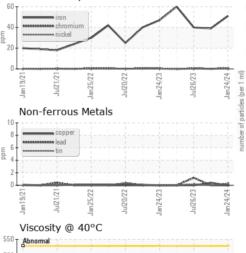


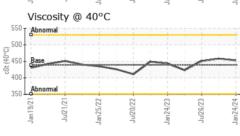


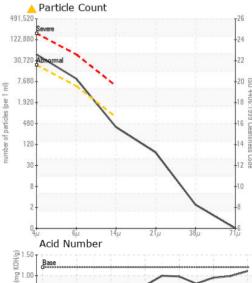
















Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : IND 2 (Additional Tests: PrtCount)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0886152 : 06075746 : 10857837

Recieved Diagnosed

: 31 Jan 2024 Diagnostician : Don Baldridge

: 01 Feb 2024

INGREDION INC WINSTON SALEM PLANT, 4501 OVERDALE ROAD WINSTON SALEM, NC

US 27107

Contact: MATTHEW KING matthew.king@ingredion.com

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.

F: (336)785-8809 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: MATTHEW KING - CORWIN

T: