

### **OIL ANALYSIS REPORT**

# Wetstarch #1 Feed Dryer

Component Case Drain Gearbox Fluid ROYAL PURPLE SYNERGY 90/220 (40 GAL)

#### DIAGNOSIS

#### Recommendation

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

#### Wear

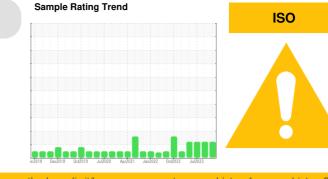
All component wear rates are normal.

#### 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.



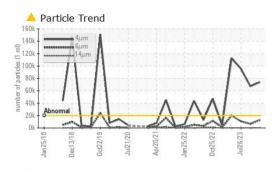
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0886180	WC0816901	WC0757595
Sample Date		Client Info		23 Jan 2024	30 Oct 2023	26 Jul 2023
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
	N	method	limit/base	current	history1	history2
Water		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	20	12	8
Chromium	ppm	ASTM D5185m	>15	<1	0	<1
Nickel	ppm	ASTM D5185m	>15	0	<1	0
Titanium	ppm	ASTM D5185m	210	<1	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum		ASTM D5185m	> 25	۰ <1	<1	<1
Lead	ppm	ASTM D5185m ASTM D5185m	>25 >100	<1	< 1	1
	ppm			-		
Copper	ppm	ASTM D5185m		0	<1	0
Tin	ppm	ASTM D5185m	>25	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	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		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		0	<1	5
Calcium	ppm	ASTM D5185m		6	8	7
Phosphorus	ppm	ASTM D5185m	370	288	313	155
Zinc	ppm	ASTM D5185m	0.0	0	0	0
Sulfur	ppm	ASTM D5185m		13142	14328	14220
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		4	4	0
Sodium		ASTM D5185m	200	2	2	0
Potassium	ppm ppm	ASTM D5185m	>20	2 <1	1	2
FLUID CLEANLIN	1522	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	A 74012	▲ 67369	▲ 95635
Particles >6µm		ASTM D7647		▲ 12777	▲ 6581	▲ 10704
Particles >14µm		ASTM D7647	>640	371	73	75
Particles >21µm		ASTM D7647		70	10	15
Particles >38µm		ASTM D7647	>40	4	0	1
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>A</b> 23/21/16	▲ 23/20/13	▲ 24/21/13
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.33	0.61	0.64	0.69
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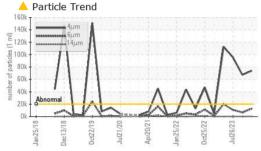
Report Id: CORWIN [WUSCAR] 06075736 (Generated: 02/01/2024 18:38:50) Rev: 1

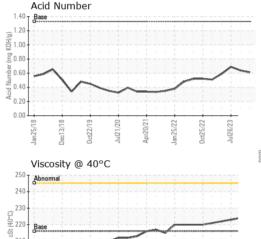
Contact/Location: MATTHEW KING - CORWIN



## **OIL ANALYSIS REPORT**







Apr20/21

Jan 25/22

210

200

190

Jan 25/18

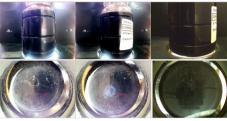
Abnormal

Dec13/18

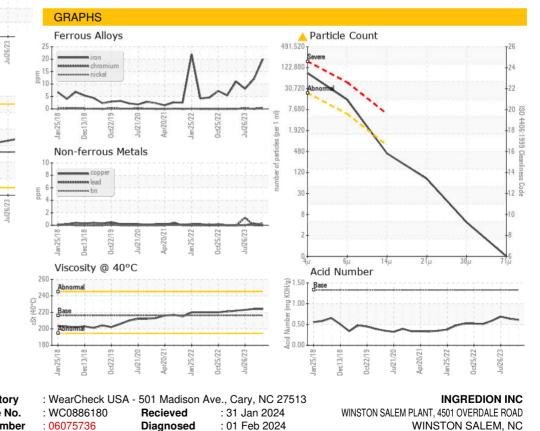
0ct22/19

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	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	216.1	224	224	223
SAMPLE IMAGES		method	limit/base	current	history1	history2

Color



Bottom



Laboratory Sample No. Lab Number :01 Feb 2024 : 06075736 Diagnosed Unique Number : 10857827 : Wes Davis Diagnostician Test Package : IND 2 (Additional Tests: PrtCount) Certificate L2367 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)

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0ct25/22 -

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