

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

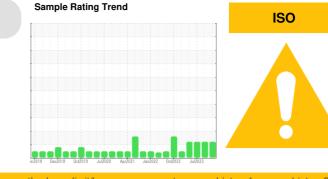
All component wear rates are normal.

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.



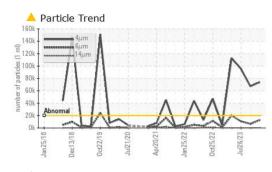
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0886180	WC0816901	WC0757595
Sample Date		Client Info		23 Jan 2024	30 Oct 2023	26 Jul 2023
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				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	A 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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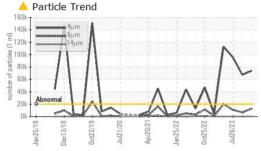
Report Id: CORWIN [WUSCAR] 06075736 (Generated: 02/01/2024 18:38:50) Rev: 1

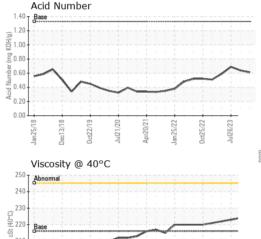
Contact/Location: MATTHEW KING - CORWIN



OIL ANALYSIS REPORT







Apr20/21

Jan 25/22

210

200

190

Jan 25/18

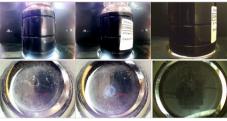
Abnormal

Dec13/18

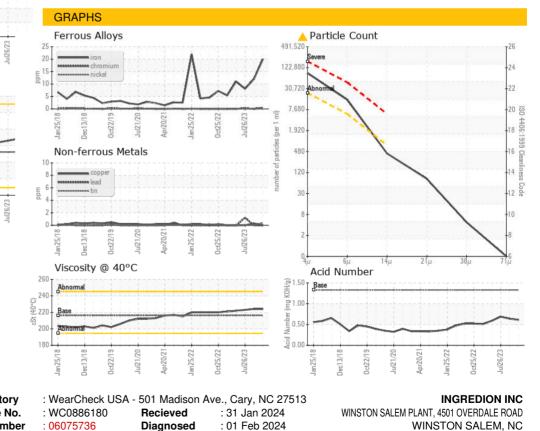
0ct22/19

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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