

OIL ANALYSIS REPORT

Wetstarch Starch Surge Hopper Aggitator

Component **Case Drain Gearbox**

ROYAL PURPLE SYNFILM 100 (60 GAL)

Recommendation

Resample at the next service interval to monitor.

Wear

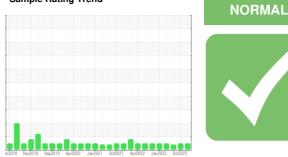
All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

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



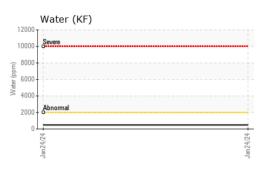
Sample Rating Trend

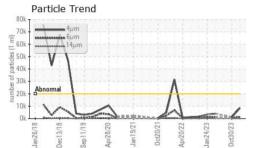


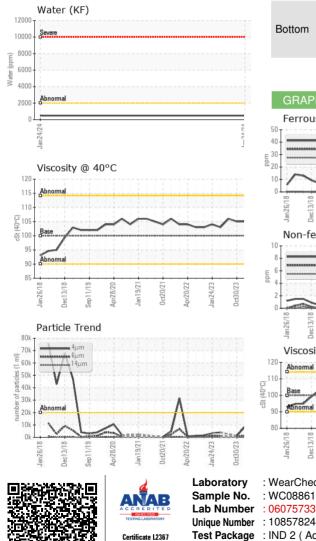
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0886197	WC0816883	WC0726086
Sample Date		Client Info		24 Jan 2024	30 Oct 2023	26 Jul 2023
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	<1	0	7
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	0
Aluminum	ppm	ASTM D5185m	>25	<1	<1	1
Lead	ppm	ASTM D5185m	>100	0	0	1
Copper	ppm	ASTM D5185m		0	<1	0
Tin	ppm	ASTM D5185m	>25	ء <1	<1	<1
Vanadium	ppm	ASTM D5185m	20	<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	90	75	76	51
Calcium	ppm	ASTM D5185m		7	9	2
Phosphorus	ppm	ASTM D5185m		19	20	60
Zinc	ppm	ASTM D5185m		5	8	4
Sulfur	ppm	ASTM D5185m		17014	18324	20357
CONTAMINANTS	i -	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	4	<1	2
Sodium	ppm	ASTM D5185m		1	1	0
Potassium	ppm	ASTM D5185m	>20	<1	<1	3
Water	%	ASTM D6304		0.049		
ppm Water	ppm	ASTM D6304		490		
FLUID CLEANLIN		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	8592	1122	
Particles >6µm		ASTM D7647	>5000	1306	481	
Particles >14µm		ASTM D7647	>640	82	72	
Particles >21µm		ASTM D7647	>160	13	8	
Particles >38µm		ASTM D7647	>40	0	0	
Particles >71µm		ASTM D7647	>10	0	0	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/18/14	17/16/13	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.25	0.41	0.43	0.36



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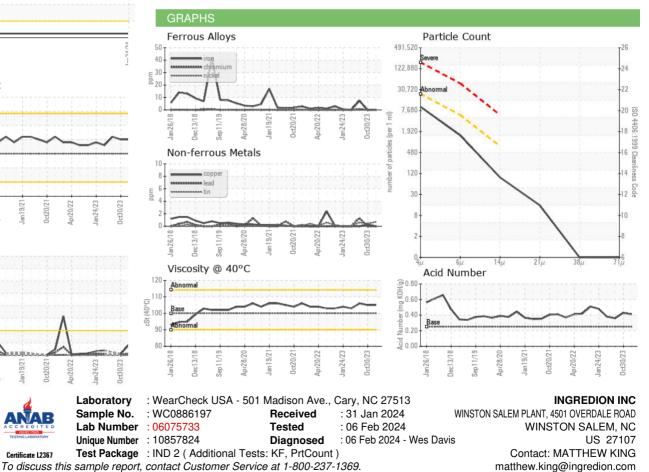


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	🔺 MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	0.2%	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	100	105	105	106
SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Color				.	(Comp Suntil Suntil Suntil	
				11-2		11/2001

Bottom

* - 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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