

### **OIL ANALYSIS REPORT**

#### Sample Rating Trend

NORMAL

# 185XX010 - WEST PRIMARY - WASTE CLARIFIER

**Gearbox** 

**ROYAL PURPLE SYNFILM GT 460 (--- QTS)** 

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

#### Wear

All component wear rates are normal.

#### Contamination

The water content is negligible. There is no indication of any contamination in the oil.

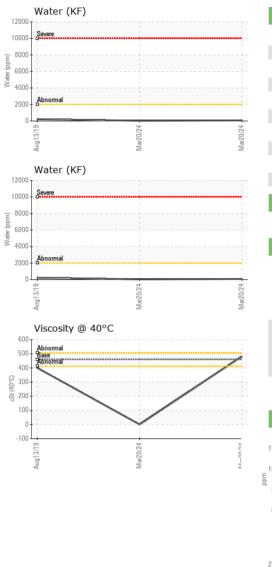
#### Fluid Condition

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

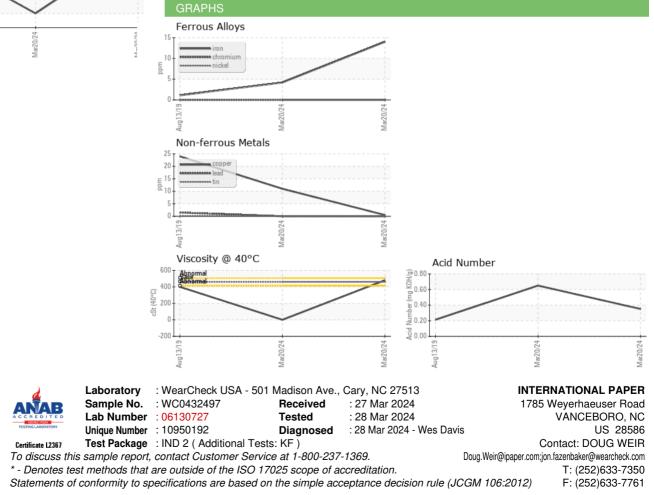
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0432497	WC0432495	RP0000504
Sample Date		Client Info		20 Mar 2024	20 Mar 2024	13 Aug 2019
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	4	14	1
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	1	0
Lead	ppm	ASTM D5185m	>100	0	0	2
Copper	ppm	ASTM D5185m	>200	11	<1	24
Tin	ppm	ASTM D5185m	>25	0	0	0
Antimony	ppm	ASTM D5185m	>5			<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	90	40	2	28
Calcium	ppm	ASTM D5185m		5	6	2
Phosphorus	ppm	ASTM D5185m		6	247	3
Zinc	ppm	ASTM D5185m		11	1	13
Sulfur	ppm	ASTM D5185m		19255	15519	16434
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	6	11	4
Sodium	ppm	ASTM D5185m		<1	0	<1
Potassium	ppm	ASTM D5185m	>20	1	1	<1
Water	%	ASTM D6304	>0.2	0.007	0.003	0.021
ppm Water	ppm	ASTM D6304	>2000	75	30	218.3
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.35	0.65	0.213



## **OIL ANALYSIS REPORT**



VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONEMODERMODERNONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGFree Waterscalar*Visual>0.2NEGNEGNEGVisc @ 40°CcStASTM D4454604800400SAMPLE IMAGESmethodlimit/basecurrenthistory1history2ColorColorEthodlimit/basecurrenthistory1history2BottomImate AdditionaryImate AdditionaryImate AdditionaryImate AdditionaryImate Additionary							
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Debris       scalar       *Visual       NONE       NONE       NONE       NONE         Sand/Dirt       scalar       *Visual       NONE       NONE       NONE       NONE         Appearance       scalar       *Visual       NORML       NORML       NORML       NORML       NORML       NORML         Odor       scalar       *Visual       NORML       NORML       NORML       NORML       NORML       NORML         Odor       scalar       *Visual       NORML       NORML       NORML       NORML       NORML       NORML         Emulsified Water       scalar       *Visual       >0.2       NEG       NEG       NEG         Free Water       scalar       *Visual       >0.2       NEG       NEG       NEG         FLUID PROPERTIES       method       limit/base       current       history1       history2         Visc @ 40°C       cSt       ASTM D445       460       480       0       400         SAMPLE IMAGES       method       limit/base       current       history1       history2         Color	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt scalar *Visual NONE NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >0.2 NEG NEG NEG Free Water scalar *Visual >0.2 NEG NEG NEG NEG Free Water scalar *Visual NORML NEG NEG NEG NEG Scalar *Visual 0 NEG NEG NEG NEG NEG Scalar *Visual 0 NEG NEG NEG NEG NEG Current history1 history2 Visc @ 40°C cSt ASTM D445 460 480   0 400 SAMPLE IMAGES method limit/base current history1 history2 Color	Silt	scalar	*Visual	NONE	MODER	MODER	NONE
Appearance     scalar     *Visual     NORML     NORML     NORML     NORML     NORML       Odor     scalar     *Visual     NORML     NORML     NORML     NORML     NORML       Emulsified Water     scalar     *Visual     >0.2     NEG     NEG     NEG       Free Water     scalar     *Visual     >0.2     NEG     NEG     NEG       Free Water     scalar     *Visual     Imit/base     current     history1     history2       Visc @ 40°C     cSt     ASTM D445     460     480 <ul> <li>0</li> <li>400</li> </ul> SAMPLE IMAGES     method     limit/base     current     history1     history2           Color          sethod         limit/base         current         history1         history2	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Odor       scalar       *Visual       NORML       NORML       NORML       NORML         Emulsified Water       scalar       *Visual       >0.2       NEG       NEG       NEG         Free Water       scalar       *Visual       >0.2       NEG       NEG       NEG         Free Water       scalar       *Visual       Imit/base       current       history1       history2         Visc @ 40°C       cSt       ASTM D445       460       480 <ul> <li>0</li> <li>400</li> </ul> SAMPLE IMAGES       method       limit/base       current       history1       history2         Color <ul> <li>Imit/base</li> <li>Current</li> <li>Imit/base</li> <li>Imit/base</li> <li>Imit/base</li> <li>Imit/base</li> <li>Imit/base</li> <li>Imit/base</li> <li>Imit/base</li> <li>Imit/base</li> </ul>	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Water     scalar     *Visual     >0.2     NEG     NEG     NEG       Free Water     scalar     *Visual     >0.2     NEG     NEG     NEG       FLUID PROPERTIES     method     limit/base     current     history1     history2       Visc @ 40°C     cSt     ASTM D445     460     480     ▲     0     400       SAMPLE IMAGES     method     limit/base     current     history1     history2       Color     Imit/base     current     history1     history2	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Free Water       scalar       *Visual       NEG       NEG       NEG         FLUID PROPERTIES       method       limit/base       current       history1       history2         Visc @ 40°C       cSt       ASTM D445       460       480<       0       400         SAMPLE IMAGES       method       limit/base       current       history1       history2         Color       Imit/base       current       history1       history2	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
FLUID PROPERTIES       method       limit/base       current       history1       history2         Visc @ 40°C       cSt       ASTM D445       460       480       0       400         SAMPLE IMAGES       method       limit/base       current       history1       history2         Color       color       imit/base       current       history1       history2	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Visc @ 40°C cSt ASTM D445 460 480   0 400 SAMPLE IMAGES method limit/base current history1 history2 Color	Free Water	scalar	*Visual		NEG	NEG	NEG
SAMPLE IMAGES method limit/base current history1 history2 Color	FLUID PROPERT	IES	method	limit/base	current	historv1	historv2
Color							
	Visc @ 40°C	cSt	ASTM D445	460	480		
Bottom	-					▲ 0	400
	SAMPLE IMAGES			limit/base	current	▲ 0	400



Contact/Location: DOUG WEIR - WEYNEW