

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id ENDEAVOR Component Starboard Reduction Gear Fluid SHELL ROTELLA T 30 (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

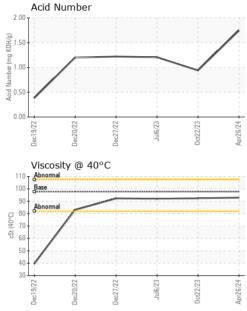
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0834569	WC0847405	WC0834559
Sample Date		Client Info		26 Apr 2024	22 Oct 2023	06 Jul 2023
Machine Age	hrs	Client Info		15564	0	13850
Oil Age	hrs	Client Info		0	0	13850
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	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	26	21	21
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	2
Lead	ppm	ASTM D5185m	>100	<1	0	0
Copper	ppm	ASTM D5185m	>50	6	3	4
Tin	ppm	ASTM D5185m	>10	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	261	232	333
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m	0	42	38	44
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		34	37	49
Calcium	ppm	ASTM D5185m	1890	3131	3016	3531
Phosphorus	ppm	ASTM D5185m	680	793	716	828
Zinc	ppm	ASTM D5185m	750	798	793	976
Sulfur	ppm	ASTM D5185m		6217	4872	6009
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	11	13	15
Sodium	ppm	ASTM D5185m		3	5	7
Potassium	ppm	ASTM D5185m	>20	3	0	0
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.747	0.94	1.206



OIL ANALYSIS REPORT

VISUAL



NONE NONE NONE NONE NONE NORML NORML NEG history2 history2 ho image
NONE NONE NONE NORML NORML NEG NEG history2 history2
NONE NONE NORML NORML NG NEG NEG NEG NEG NEG NEG NEG NEG NEG
NONE NORML NORML NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG
NONE NORML NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG
NORML NORML NEG history2 p2.0 history2
NORML NEG history2 p2.0 history2
NEG NEG history2 02.0 history2
NEG history2)2.0 history2
history2 02.0 history2 no image
92.0 history2 no image
92.0 history2 no image
no image
no image
no image
no image
/
1
23
0ct22/23

Report Id: CITSANUS [WUSCAR] 06177347 (Generated: 05/15/2024 14:08:48) Rev: 1

Contact/Location: PETER CHARBONNET - CITSANUS