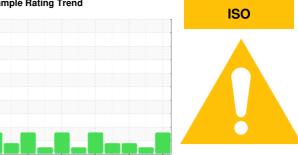


OIL ANALYSIS REPORT

Sample Rating Trend



FLIGHT SIMULATOR 747-2

Component

Hydraulic System

SHELL TELLUS 46 (400 GAL)

DIAGNOSIS

Recommendation

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

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible. 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.

		Mar2018	Mar2019 Jun2020	Mar2021 May2022	Mar2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ST44143	ST40569	ST40978
Sample Date		Client Info		04 Mar 2024	10 Mar 2023	15 May 2022
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				ABNORMAL	NORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	<1	<1
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	<1
Lead	ppm	ASTM D5185m	>20	0	<1	2
Copper	ppm	ASTM D5185m	>20	4	5	5
Tin	ppm	ASTM D5185m	>20	0	0	0
Antimony	ppm	ASTM D5185m				
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	0	0	2
Barium	ppm	ASTM D5185m	0	0	0	<1
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	11	10	12	0
Calcium	ppm	ASTM D5185m	35	15	27	31
Phosphorus	ppm	ASTM D5185m	266	262	304	291
Zinc	ppm	ASTM D5185m	276	336	366	364
Sulfur	ppm	ASTM D5185m	1847	967	1132	1143
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	<1	<1
Sodium	ppm	ASTM D5185m		1	<1	<1
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.05	0.001	0.004	0.005
ppm Water	ppm	ASTM D6304	>500	5	44.7	55.7
FLUID CLEANLII	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>320	<u> </u>	168	516
Particles >6µm		ASTM D7647	>80	<u> </u>	44	58
Particles >14µm		ASTM D7647	>10	<u> </u>	6	6
Particles >21µm		ASTM D7647	>3	4	3	2
Particles >38µm		ASTM D7647	>3	0	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>15/13/10	18/16/11	15/13/10	1 6/13/10
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2

Acid Number (AN)

mg KOH/g ASTM D8045 0.36

0.36

0.35

0.33

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Contact/Location: OSCAR DELGADO - BOEMIA



OIL ANALYSIS REPORT

