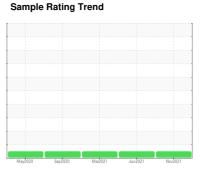


OIL ANALYSIS REPORT

Area **88-19** AFP4 - HS PRIMARY (S/N SC004376)

Gearbox

GEAR OIL (PAG) ISO 220 (7 LTR)





Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

Fluid Condition

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

		May2020	Sep2020	Mar2021 Jun2021	Nov2021	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0565776	WC0565763	WC0466812
Sample Date		Client Info		01 Nov 2021	29 Jun 2021	04 Mar 2021
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	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	0	<1	0
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>25	0	<1	0
Lead	ppm	ASTM D5185m	>100	<1	<1	0
Copper	ppm	ASTM D5185m	>200	0	<1	0
Tin	ppm	ASTM D5185m	>25	<1	<1	<1
Antimony	ppm	ASTM D5185m	-	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	ρρ	method	limit/base		history1	history2
Boron	nnm	ASTM D5185m	5	<1	1	1
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	<1	0
•	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m	5	0	1	0
Magnesium Calcium	ppm		5	0	0	0
	ppm	ASTM D5185m		444		-
Phosphorus	ppm	ASTM D5185m	775		465	437
Zinc	ppm	ASTM D5185m	5	0	0	0
Sulfur	ppm	ASTM D5185m	2000	468	510	466
CONTAMINANTS	5	method	limit/base		history1	history2
Silicon	ppm	ASTM D5185m	>50	0	1	<1
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	0	1	0
FLUID DEGRADA		method	limit/base		history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	2.00	0.805	0.751	0.779
VISUAL		method	limit/base		history1	history2
White Metal	scalar	*Visual	NONE	MODER	MODER	MODER
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

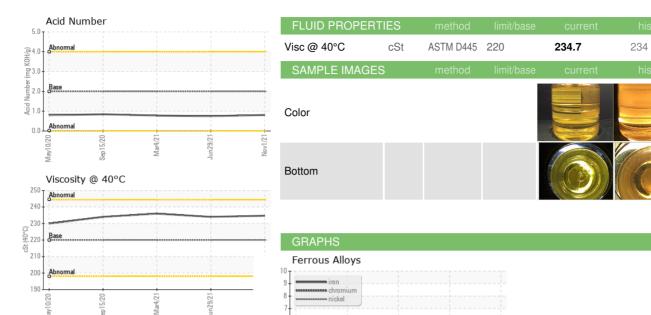
NEG

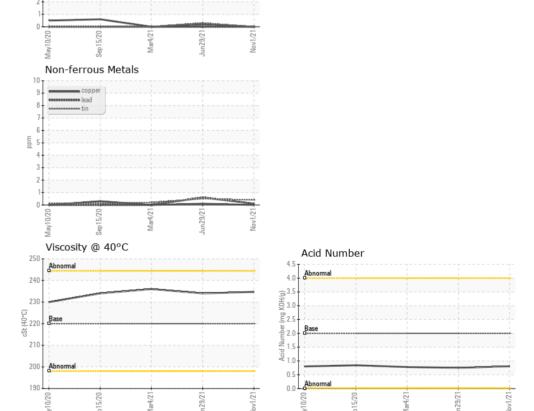
scalar *Visual

SUEGitted By: DANEGARRIS



OIL ANALYSIS REPORT









Certificate L2367

Laboratory Sample No.

Lab Number

: WC0565776 : 05399285 Unique Number : 9738435 Test Package : IND 2

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Nov 2021 Diagnosed Diagnostician : Wes Davis

: 16 Nov 2021

THE BOEING COMPANY 5400 AIRFRAME DR NORTH CHARLESTON, SC

US 29418

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Contact: DAN HARRIS

DANIEL.R.HARRIS2@BOEING.COM

* - 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) T: (843)730-0805