

OIL ANALYSIS REPORT



w\$019 Nov\$020 Agx\$021 Jun\$021 Sag\$0221 Max\$022 Aug\$022 Feb\$023 Nov\$023 Jun\$0

Sample Rating Trend



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

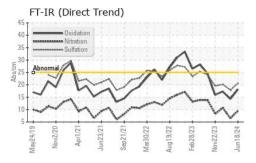
Fluid Condition

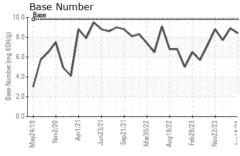
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

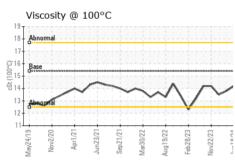
SAMPLE INFOR	NOITAM	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0115942	GFL0090012	GFL009983
Sample Date		Client Info		18 Jun 2024	05 Mar 2024	10 Feb 2024
Machine Age	hrs	Client Info		15305	15305	15812
Oil Age	hrs	Client Info		0	0	200
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAI	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	13	10	39
Chromium	ppm	ASTM D5185m	>20	<1	0	2
Nickel	ppm	ASTM D5185m	>2	<1	0	1
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	3	2	13
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	<1	0	2
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	22	6	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	44	56	81
Manganese	ppm	ASTM D5185m	0	<1	0	1
Magnesium	ppm	ASTM D5185m	1010	764	880	1313
Calcium	ppm	ASTM D5185m	1070	1125	1015	1417
Phosphorus	ppm	ASTM D5185m	1150	731	1036	1498
Zinc	ppm	ASTM D5185m	1270	874	1183	1666
Sulfur	ppm	ASTM D5185m	2060	2660	2885	5184
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	19	4	13
Sodium	ppm	ASTM D5185m		4	4	11
Potassium	ppm	ASTM D5185m	>20	21	27	<u>▲</u> 121
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.4	0.2	0.8
Nitration	Abs/cm	*ASTM D7624	>20	9.5	6.5	10.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	17.9	20.2
FLUID DEGRA	OITAD	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.1	14.3	17.3



OIL ANALYSIS REPORT



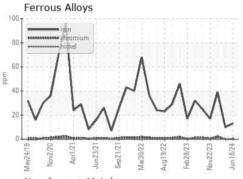


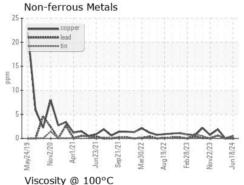


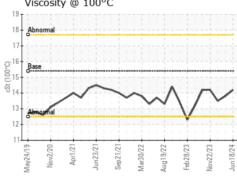
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
Free Water	scalar	*Visual		NEG	NEG	NEG

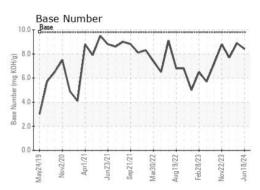
FLUID PROPE	ERITES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	13.8	13.5

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06214470

Test Package : FLEET

: GFL0115942 Unique Number : 11087334

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Jun 2024

Tested : 20 Jun 2024 Diagnosed : 21 Jun 2024 - Don Baldridge

GFL Environmental - 018 - Fayetteville 4621 Marracco Drive

Hope Mills, NC US 28348

Contact: Robert Carter robert.carter@gflenv.com T: (910)596-1170

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

* - 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)