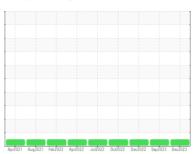


OIL ANALYSIS REPORT

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

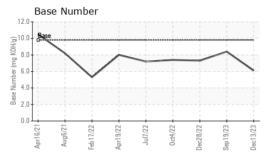
Fluid Condition

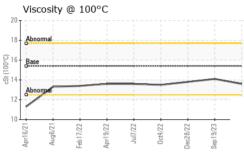
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

(/			Jul2022 Oct2022 Dec2022 Sep20		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0090908	GFL0090924	GFL0061974
Sample Date		Client Info		13 Dec 2023	19 Sep 2023	28 Dec 2022
Machine Age	hrs	Client Info		6575	5975	5127
Oil Age	hrs	Client Info		600	600	625
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	NC	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 METALS	;	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	17	2	10
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	2	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	1	<1	0
Aluminum	ppm	ASTM D5185m	>20	2	0	2
Lead	ppm	ASTM D5185m	>40	2	0	0
Copper	ppm	ASTM D5185m	>330	25	16	3
Tin	ppm	ASTM D5185m	>15	2	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	15	88
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	62	64	66
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	983	1079	866
Calcium	ppm	ASTM D5185m	1070	1052	1178	1199
Phosphorus	ppm	ASTM D5185m	1150	953	1167	1005
Zinc	ppm	ASTM D5185m	1270	1288	1423	1236
Sulfur	ppm	ASTM D5185m	2060	2351	3862	3309
CONTAMINANT	ſS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10	8	7
Sodium	ppm	ASTM D5185m		5	3	2
Potassium	ppm	ASTM D5185m	>20	1	1	7
INFRA-RED		method	limit/base	current	history1	history2
			4	0.7	0.2	0.5
Soot %	%	*ASTM D7844	>4	0.7	0.2	0.5
	% Abs/cm	*ASTM D7844 *ASTM D7624	>4			
Soot %				8.9 21.2	4.8 17.4	7.8 19.9
Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7624	>20	8.9	4.8	7.8
Soot % Nitration Sulfation FLUID DEGRAD	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415 method	>20 >30 limit/base	8.9 21.2 current	4.8 17.4 history1	7.8 19.9 history2
Soot % Nitration Sulfation FLUID DEGRAD. Oxidation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20 >30	8.9 21.2	4.8 17.4	7.8 19.9



OIL ANALYSIS REPORT

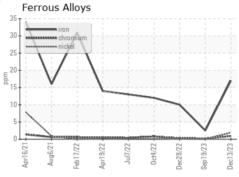


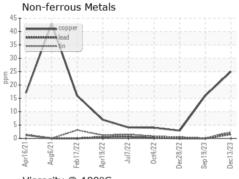


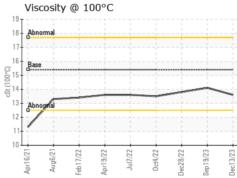
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

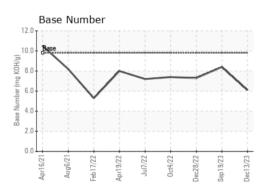
FLUID PROP	PERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	14.1	13.8

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0090908 : 06039844 : 10795073

Recieved Diagnosed

: 19 Dec 2023 : 20 Dec 2023 Diagnostician : Wes Davis

GFL Environmental - 656 - Culpeper Hauling

15490 Montanus Drive Culpeper, VA US 22701 Contact: Matt Hanna

mhanna@gflenv.com T: (540)727-0887

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)