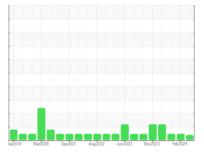


OIL ANALYSIS REPORT





Sample Rating Trend



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

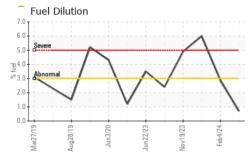
Fluid Condition

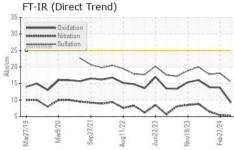
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

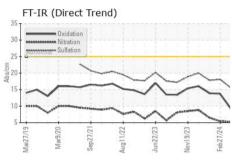
N SHP 15W40 (- GAL)	Tar2019 M	ar2020 Sep2021 A	ug2022 Jun2023 Nov2023	Feb 2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0102948	GFL0074799	GFL0074791
Sample Date		Client Info		18 Apr 2024	27 Feb 2024	04 Feb 2024
Machine Age	hrs	Client Info		24065	23884	23871
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	2	5	0
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	3	4
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	<1	<1	1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	6	72	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	7	65	58
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	76	850	874
Calcium	ppm	ASTM D5185m	1070	2206	1269	1010
Phosphorus	ppm	ASTM D5185m	1150	950	1081	952
Zinc	ppm	ASTM D5185m	1270	1038	1256	1183
Sulfur	ppm	ASTM D5185m	2060	3916	3298	2853
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	6	4
Sodium	ppm	ASTM D5185m		<1	2	0
Potassium	ppm	ASTM D5185m	>20	3	2	0
Fuel	%	ASTM D3524	>3.0	0.7	<1.0	2.9
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.1	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	5.3	5.4	6.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	15.5	18.1	17.8
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	9.2	13.7	13.9
			9.8	7.8	9.1	8.5
Base Number (BN)	mg KOH/g	ASTM D2896	5.0	7.0	5.1	0.5

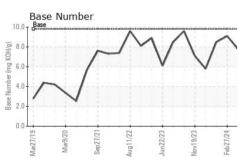


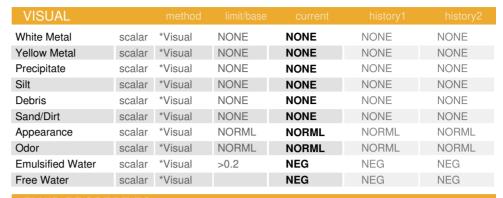
OIL ANALYSIS REPORT





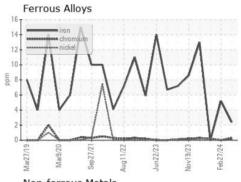


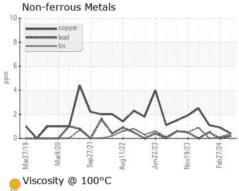


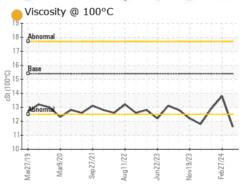


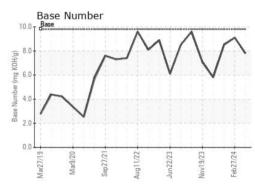
FLUID PROPE	ERTIES					
Visc @ 100°C	cSt	ASTM D445	15.4	11.6	13.8	12.9

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0102948 Lab Number : 06155149 $\textbf{Unique Number} \quad : 10990572$

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Apr 2024 **Tested**

: 24 Apr 2024 Diagnosed

: 24 Apr 2024 - Sean Felton

GFL Environmental - 816 - WCA of South Arkansas 3083 Smackover Hwy El Dorado, AR US 71730

Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel) Contact: Mike Howell To discuss this sample report, contact Customer Service at 1-800-237-1369. mike.howell@gflenv.com st - 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) Report Id: GFL816 [WUSCAR] 06155149 (Generated: 04/24/2024 09:38:20) Rev: 1

Submitted By: Nicole Walls

T:

F: