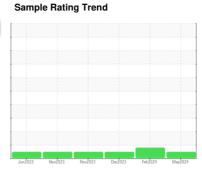


OIL ANALYSIS REPORT







DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

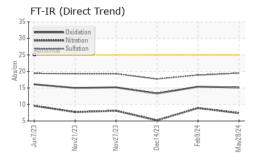
Fluid Condition

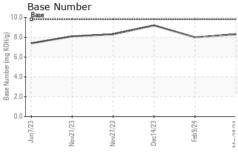
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

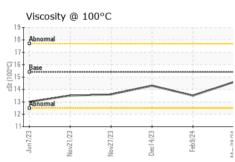
SAMPLE INFORM	/ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0122549	GFL0108703	GFL0105770
Sample Date		Client Info		28 May 2024	09 Feb 2024	14 Dec 2023
Machine Age	hrs	Client Info		21550	21341	20908
Oil Age	hrs	Client Info		21341	20908	0
Oil Changed	1110	Client Info		Not Change	Changed	Changed
Sample Status		Chorte hillo		NORMAL	ATTENTION	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	3	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	7	7 1	2
Chromium	ppm	ASTM D5185m	>5	0	<1	0
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	1	6	1
Lead	ppm	ASTM D5185m	>30	0	0	0
Copper	ppm	ASTM D5185m	>150	0	2	<1
Tin	ppm	ASTM D5185m	>5	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	0	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	56	60	54
Manganese	ppm	ASTM D5185m	0	0	0	<1
Magnesium	ppm	ASTM D5185m	1010	911	924	905
Calcium	ppm	ASTM D5185m	1070	1010	1028	968
Phosphorus	ppm	ASTM D5185m	1150	1008	958	995
Zinc	ppm	ASTM D5185m	1270		1217	1239
	le le		12/0	1208	1217	
Sulfur	ppm	ASTM D5185m	2060	1208 3339	2839	3135
-	ppm					
Sulfur	ppm	ASTM D5185m	2060 limit/base	3339	2839	3135
Sulfur CONTAMINAN	ppm TS	ASTM D5185m method	2060 limit/base	3339 current	2839 history1	3135 history2
Sulfur CONTAMINAN [*] Silicon	ppm TS ppm	ASTM D5185m method ASTM D5185m	2060 limit/base	3339 current 2	2839 history1	3135 history2 5
Sulfur CONTAMINAN Silicon Sodium	ppm TS ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m	2060 limit/base >20	3339 current 2 3	2839 history1 3 2	3135 history2 5
Sulfur CONTAMINAN Silicon Sodium Potassium	ppm TS ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	2060 limit/base >20 >20	3339 current 2 3 0	2839 history1 3 2 3	3135 history2 5 1 3
Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm TS ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method	2060 limit/base >20 >20 limit/base	current 2 3 0 current	2839 history1 3 2 3 history1	3135 history2 5 1 3 history2
Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm TS ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	2060 limit/base >20 >20 limit/base >3	3339	2839 history1 3 2 3 history1 0.5	3135 history2 5 1 3 history2 0.2
Sulfur CONTAMINANT Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm Abs/cm Abs/.1mm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	2060 limit/base >20 >20 limit/base >3 >20	3339	2839 history1 3 2 3 history1 0.5 8.9	3135 history2 5 1 3 history2 0.2 5.2
Sulfur CONTAMINANT Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm Abs/cm Abs/.1mm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	2060 limit/base >20 >20	3339	2839 history1 3 2 3 history1 0.5 8.9 18.9	3135 history2 5 1 3 history2 0.2 5.2 17.7



OIL ANALYSIS REPORT



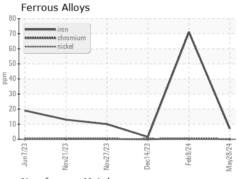


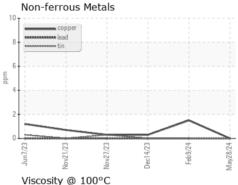


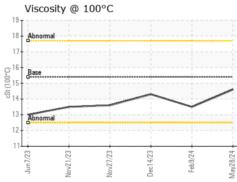
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

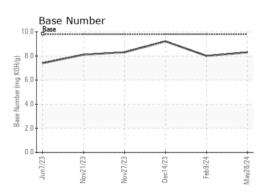
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.6	13.5	14.3

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06195194 Unique Number : 11057317 Test Package : FLEET

: GFL0122549

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 30 May 2024 **Tested** : 31 May 2024

Diagnosed : 31 May 2024 - Wes Davis

GFL Environmental - 415 - Michigan East

6200 Elmridge Sterling Heights, MI US 48313 Contact: Frank Wolak

fwolak@gflenv.com T: (586)825-9514

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)

Report Id: GFL415 [WUSCAR] 06195194 (Generated: 05/31/2024 11:55:30) Rev: 1

Submitted By: Frank Wolak