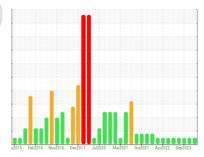


OIL ANALYSIS REPORT





Sample Rating Trend



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: E service)

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

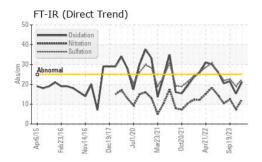
Fluid Condition

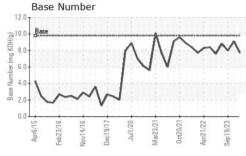
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

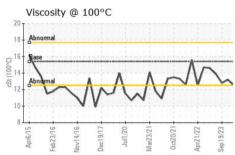
·	•						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0111074	GFL0098538	GFL0087756	
Sample Date		Client Info		23 Apr 2024	21 Oct 2023	19 Sep 2023	
Machine Age	hrs	Client Info		17495	16922	16711	
Oil Age	hrs	Client Info		573	1137	450	
Oil Changed		Client Info		Changed	Changed	Not Changd	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	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 METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>90	42	9	38	
Chromium	ppm	ASTM D5185m	>20	2	<1	2	
Nickel	ppm	ASTM D5185m	>2	0	<1	<1	
Titanium	ppm	ASTM D5185m	>2	0	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	6	2	<1	
Lead	ppm	ASTM D5185m	>40	<1	0	2	
Copper	ppm	ASTM D5185m	>330	2	<1	<1	
Tin	ppm	ASTM D5185m	>15	<1	0	<1	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	1	0	<1	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	58	55	58	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	891	907	924	
Calcium	ppm	ASTM D5185m	1070	1028	995	1092	
Phosphorus	ppm	ASTM D5185m	1150	974	1034	987	
Zinc	ppm	ASTM D5185m	1270	1179	1215	1222	
Sulfur	ppm	ASTM D5185m	2060	3016	2968	3311	
CONTAMINANTS method limit/base current history1 history						history2	
Silicon	ppm	ASTM D5185m	>25	6	3	6	
Sodium	ppm	ASTM D5185m		4	2	4	
Potassium	ppm	ASTM D5185m	>20	4	2	4	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	1.2	0.5	1.3	
Nitration	Abs/cm	*ASTM D7624	>20	12.3	7.4	12.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.5	19.1	22.7	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.3	15.3	21.5	
Base Number (BN)	mg KOH/g	ASTM D2896		7.7	9.1	8.0	
(=14)	39						



OIL ANALYSIS REPORT



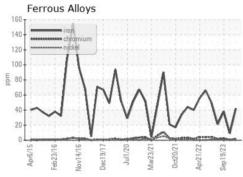


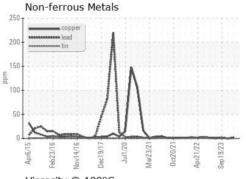


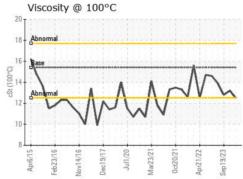
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

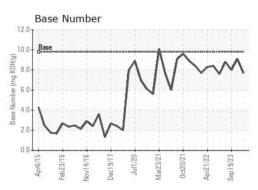
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.5	13.2	12.8

GRAPHS













Certificate 12367

Laboratory

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Lab Number : 06158945 Unique Number : 10994368

: GFL0111074 Test Package : FLEET

Received : 24 Apr 2024 **Tested** Diagnosed

: 25 Apr 2024 : 25 Apr 2024 - Don Baldridge

GFL Environmental - 006 - Wilmington

3618 US Highway 421 N Wilmington, NC US 28401

Contact: Eric Wood eric.wood@gflenv.com T: (717)723-1956

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) F: (910)762-6880