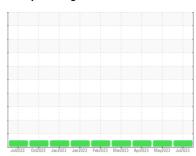


OIL ANALYSIS REPORT

Sample Rating Trend









DIAGNOSIS SAMPLE INFOR

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

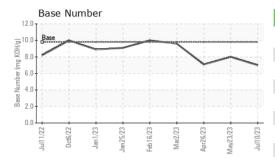
Fluid Condition

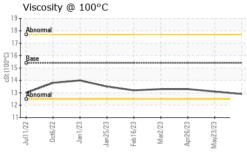
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

	Julio (22 Octio 22 Junio 123 Junio 123 April 1						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0083665	GFL0080011	GFL0078262	
Sample Date		Client Info		10 Jul 2023	23 May 2023	26 Apr 2023	
Machine Age	hrs	Client Info		0	0	0	
Oil Age	hrs	Client Info		600	0	0	
Oil Changed		Client Info		Changed	Not Changd	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	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>120	12	8	6	
Chromium	ppm	ASTM D5185m	>20	<1	<1	0	
Nickel	ppm	ASTM D5185m	>5	0	<1	0	
Titanium	ppm	ASTM D5185m	>2	0	<1	0	
Silver	ppm	ASTM D5185m	>2	0	<1	0	
Aluminum	ppm	ASTM D5185m	>20	5	3	0	
Lead	ppm	ASTM D5185m	>40	0	3	<1	
Copper	ppm	ASTM D5185m	>330	3	3	3	
Tin	ppm	ASTM D5185m	>15	<1	1	<1	
Vanadium	ppm	ASTM D5185m		0	<1	0	
Cadmium	ppm	ASTM D5185m		0	<1	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	<1	<1	0	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	57	54	56	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	934	953	869	
Calcium	ppm	ASTM D5185m	1070	1174	1218	1153	
Phosphorus	ppm	ASTM D5185m	1150	991	1008	1007	
Zinc	ppm	ASTM D5185m	1270	1267	1278	1233	
Sulfur	ppm	ASTM D5185m	2060	3773	3827	2891	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	5	4	
Sodium	ppm	ASTM D5185m		4	4	3	
Potassium	ppm	ASTM D5185m	>20	4	6	4	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.5	0.3	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	10.8	9.2	7.1	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	18.9	16.4	
FLUID DEGRA	OATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	15.6	12.4	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.0	8.0	7.1	
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OIL ANALYSIS REPORT

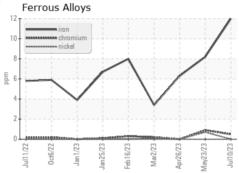


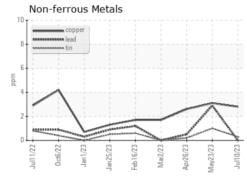


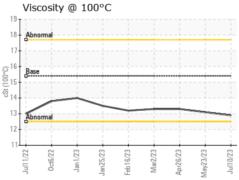
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

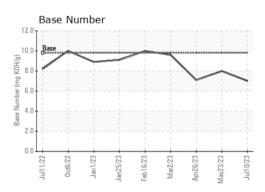
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	12.9	13.1	13.3	

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

: GFL0083665 : 05903608 Unique Number : 10564964

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Jul 2023 Diagnosed : 21 Jul 2023

Diagnostician : Wes Davis

GFL Environmental - 846 - Mayfield Hauling 3426 State Route 45 Mayfield, KY

US 42066 Contact: Jack Lindsey jack.lindsey@gflenv.com

T: (270)970-3690

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)