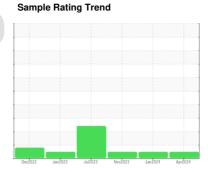


OIL ANALYSIS REPORT







DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Diesel Engine

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

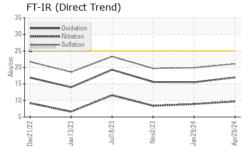
Fluid Condition

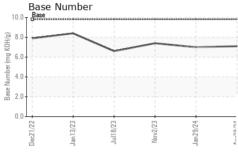
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

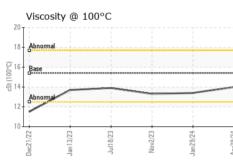
	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
	Sample Number		Client Info		GFL0077743	GFL0077787	GFL007777
e interval to monitor.	Sample Date		Client Info		29 Apr 2024	29 Jan 2024	02 Nov 2023
	Machine Age	hrs	Client Info		4194	3484	2872
e normal.	Oil Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
ontamination in the	Sample Status				NORMAL	NORMAL	NORMAL
	CONTAMINAT	ION	method	limit/base	current	history1	history2
and the section to	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
ere is suitable	Water		WC Method		NEG	NEG	NEG
The condition of the e.	Glycol		WC Method		NEG	NEG	NEG
	WEAR METAL	.S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	17	13	15
	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m		1	3	2
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m		<1	<1	<1
	Aluminum	ppm	ASTM D5185m		2	2	2
	Lead	ppm	ASTM D5185m		0	<1	<1
	Copper	ppm	ASTM D5185m		2	2	4
	Tin	ppm	ASTM D5185m		1	1	<1
	Vanadium	ppm	ASTM D5185m	>10	<1	0	0
	Cadmium	ppm	ASTM D5185m		<1	0	<1
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	<1	9	3
	Barium	ppm	ASTM D5185m	0	0	0	5
	Molybdenum	ppm	ASTM D5185m	60	60	60	60
	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	930	919	875
	Calcium	ppm	ASTM D5185m	1070	1054	1036	1055
	Phosphorus	ppm	ASTM D5185m	1150	1012	1017	1014
	Zinc	ppm	ASTM D5185m	1270	1248	1237	1161
	Sulfur	ppm	ASTM D5185m	2060	2890	2806	3117
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	5	5	6
	Sodium	ppm	ASTM D5185m		5	5	1
	Potassium	ppm	ASTM D5185m	>20	3	3	6
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.8	0.7	0.7
	Nitration	Abs/cm	*ASTM D7624	>20	9.7	8.9	8.4
	Sulfation	Abs/.1mm	*ASTM D7415		21.1	19.9	19.7
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	15.5	15.6

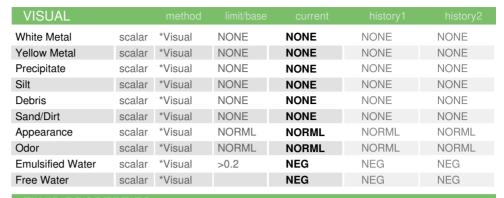


OIL ANALYSIS REPORT



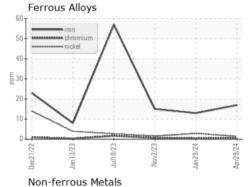


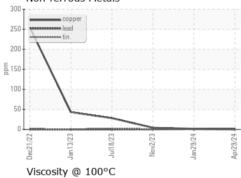


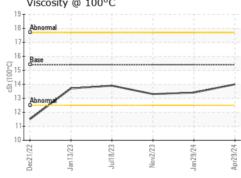


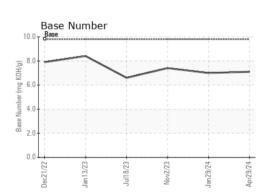
FLUID PROP	ERHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	13.4	13.3

GRAPHS













Certificate 12367

Laboratory Sample No. Unique Number : 11029900

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0077743 Lab Number : 06178574

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Test Package : FLEET

Received : 14 May 2024 **Tested** : 15 May 2024 Diagnosed

: 15 May 2024 - Wes Davis

GFL Environmental - 650 - West Point Hauling

7825 Parham Landing Road West Point, VA US 23181

Contact: Jason Smith jasonsmith@gflenv.com T: (804)843-9288

 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)