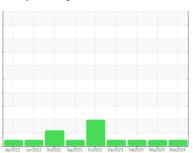


OIL ANALYSIS REPORT

Sample Rating Trend









DIAGNOSIS

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

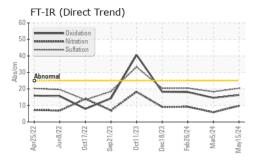
Fluid Condition

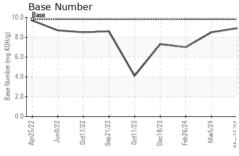
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

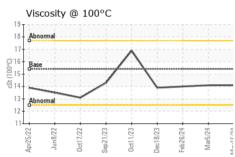
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number	VII (1101)	Client Info		GFL0115056	GFL0115025	GFL0115055
Sample Date		Client Info		15 May 2024	05 Mar 2024	26 Feb 2024
Machine Age	hrs	Client Info		18208	17616	17546
Oil Age	hrs	Client Info		592	580	586
Oil Changed	1110	Client Info		Changed	Changed	Changed
Sample Status		Onorte milo		NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	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 METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	24	3	10
Chromium	ppm	ASTM D5185m	>20	1	0	<1
Nickel	ppm	ASTM D5185m	>2	1	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	5	0	2
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	8	0	<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	2	<1	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	53	54
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	979	903	891
Calcium	ppm	ASTM D5185m	1070	1033	990	951
Phosphorus	ppm	ASTM D5185m	1150	1008	987	962
Zinc	ppm	ASTM D5185m	1270	1294	1149	1231
Sulfur	ppm	ASTM D5185m	2060	3491	3317	2723
CONTAMINAN [*]	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	2	4
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>25	6 8	2	7
			>25 >20			
Sodium	ppm	ASTM D5185m		8	3	7
Sodium Potassium	ppm	ASTM D5185m ASTM D5185m	>20	8 <1	3	7 1
Sodium Potassium INFRA-RED	ppm	ASTM D5185m ASTM D5185m method	>20 limit/base	8 <1 current	3 0 history1	7 1 history2
Sodium Potassium INFRA-RED Soot %	ppm ppm	ASTM D5185m ASTM D5185m method *ASTM D7844	>20 limit/base >6	8 <1 current 1.3	3 0 history1 0.1	7 1 history2 0.4
Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	>20 limit/base >6 >20	8 <1 current 1.3 9.8	3 0 history1 0.1 5.9	7 1 history2 0.4 9.2
Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 limit/base >6 >20 >30	8 <1 current 1.3 9.8 20.4	3 0 history1 0.1 5.9 18.3	7 1 history2 0.4 9.2 20.5



OIL ANALYSIS REPORT



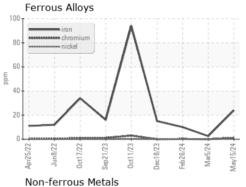


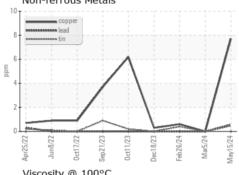


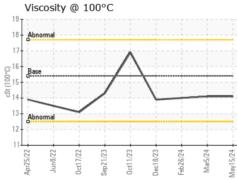
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

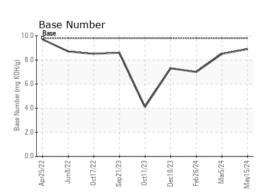
FLUID PROPE	ERITES	method	ilmit/base		nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	14.1	14.0

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0115056 Lab Number : 06190220

Unique Number : 11046972 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 May 2024

Tested : 28 May 2024 Diagnosed : 28 May 2024 - Wes Davis

7811 Chubb Rd NORTHVILLE, MI US 48168

GFL Environmental - 405 - Arbor Hills

Contact: Anthony Hopkins ahopkins@gflenv.com

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)

T:

F: