

## **OIL ANALYSIS REPORT**

Sample Rating Trend



(62A0X13) ALEXANDER CITY 723009-234528

Diesel Engine

Area

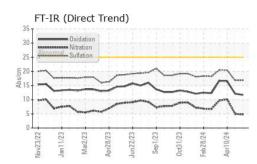
Fluid CHEVRON DELC

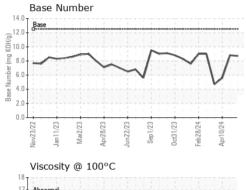
IAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	e current	history1	history2
commendation	Sample Number		Client Info		GFL0091345	GFL0079741	GFL0079738
ample at the next service interval to monitor.	Sample Date		Client Info		17 Apr 2024	13 Apr 2024	10 Apr 2024
ir	Machine Age	hrs	Client Info		25519	25487	25477
omponent wear rates are normal.	Oil Age	hrs	Client Info		25519	25487	25477
tamination	Oil Changed		Client Info		N/A	N/A	N/A
re is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
,	CONTAMINAT	ION	method	limit/base	current	history1	history2
d Condition	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
BN result indicates that there is suitable	Water		WC Method		NEG	NEG	NEG
kalinity remaining in the oil. The condition of the I is acceptable for the time in service.	Glycol		WC Method	20.L	NEG	NEG	NEG
	-	0		1· · · //			
	WEAR METAL	.5	method	limit/base		history1	history2
	Iron	ppm	ASTM D5185m		2	2	12
	Chromium	ppm	ASTM D5185m		0	<1	<1
	Nickel	ppm	ASTM D5185m		0	0	2
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	4	3
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m		<1	<1	7
	Tin	ppm	ASTM D5185m	>15	0	0	<1
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	151	19	20	4
	Barium	ppm	ASTM D5185m	0.4	0	0	0
	Molybdenum	ppm	ASTM D5185m	250	55	61	60
	Manganese	ppm	ASTM D5185m		0	0	<1
	Magnesium	ppm	ASTM D5185m	0	795	840	825
	Calcium	ppm	ASTM D5185m	2046	964	1089	1056
	Phosphorus	ppm	ASTM D5185m		844	1059	862
	Zinc	ppm	ASTM D5185m		1009	1175	1087
	Sulfur	ppm	ASTM D5185m	5012	3116	2989	3050
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	3	3	6
	Sodium	ppm	ASTM D5185m		2	2	7
	Potassium	ppm	ASTM D5185m	>20	0	2	22
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.4	0.4	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	4.8	5.0	10.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	16.8	16.8	20.4
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	11.7	12.1	16.5
	Base Number (BN)				8.7	8.8	5.6

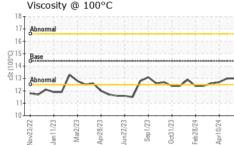




## **OIL ANALYSIS REPORT**







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	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	13.0	13.0	12.7
GRAPHS						

Ferrous Alloys

16

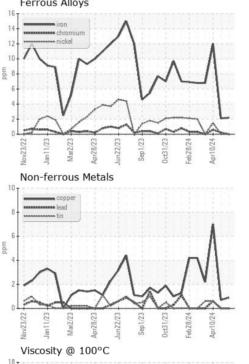
() 15 () 10 14 <sup>15</sup> 13

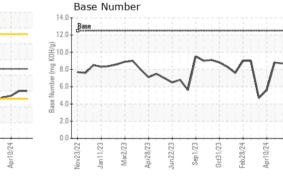
12

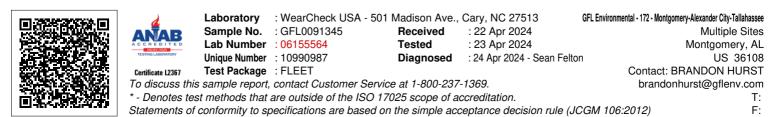
10

Nov23/22 Jan11/23 Mar2/23

Apr/28/73







Sep 1/23

eb28/24

Report Id: GFL172 [WUSCAR] 06155564 (Generated: 04/24/2024 12:07:40) Rev: 1

Submitted By: Lisa Reeves Page 2 of 2