

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Area GFL035 Machine Id 3679 **Diesel Engine** Fluic

CHEVRON DELO 400 SDE SAE 15W40 (38 QT

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

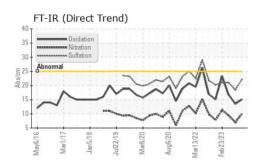
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

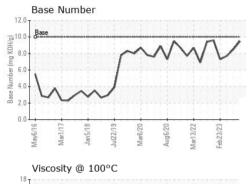
SAMPLE INFORMATION method imitibase current history1 history1 Sample Number Client Info Of Apr 2024 GFL0102289 GFL00102289 GFL0010289 GFL0010289 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th>V</th></td<>							V
Sample Number Client Info GFL0116425 GFL0102289 GFL0071601 Sample Date Client Info 01 Apr 2024 17 Nov 2023 24 May 2023 Machine Age hrs Client Info 11010 11010 11010 Dil Age hrs Client Info 600 600 600 Dil Changed Client Info NORMAL NORMAL NORMAL NORMAL CONTAMINATION method Imil/base current history1 history2 Fuel WC Method >0.2 NEG NEG NEG Water WC Method >0.2 NEG NEG NEG Vickel ppm ASTM 051655 >2 2 2 2 Vickel ppm ASTM 051655 >2 0 <1 <1 Silver ppm ASTM 051655 >2 0 <1 <1 Silver ppm ASTM 051655 >2 0 <1 <1 Vickele ppm	QTS)		v/2016 Mar20	017 Jan2018 Jul2019	Mar2020 Aug2020 Mar2022	Feb/2023	
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Dil Changed Sample Status Client Info Not Changed NORMAL Changed NORMAL Changed NORMAL Changed NORMAL CONTAMINATION method iimit/base current history1 history2 Fuel WC Method >3.0 <1.0	Machine Age	hrs	Client Info		11010	11010	11010
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Nickel ppm ASTM D5185m >4 0 <1 <1 Fitanium ppm ASTM D5185m >2 0 <1	Chromium		ASTM D5185m	>5	2	2	2
Fittanium ppm ASTM D5185m >2 0 <1 <1 Silver ppm ASTM D5185m >2 0 <1	Nickel	ppm	ASTM D5185m	>4	0	<1	<1
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Numinum ppm ASTM D5185m >15 8 11 10 Lead ppm ASTM D5185m >25 0 0 1 Copper ppm ASTM D5185m >100 <1	Silver				0	<1	<1
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Manganese ppm ASTM D5185m <1 <1 1 Magnesium ppm ASTM D5185m 897 913 1024 Calcium ppm ASTM D5185m 1055 1096 1258 Phosphorus ppm ASTM D5185m 760 975 987 1136 Zinc ppm ASTM D5185m 800 1222 1216 1403 Sulfur ppm ASTM D5185m 3000 3432 3239 3746 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 9 14 11 Sodium ppm ASTM D5185m >20 0 2 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 1.9 0.5 0.9 Nitration Abs/cm *ASTM D7624 20 10.0 7.0	Barium	ppm	ASTM D5185m		0	0	0
Manganese ppm ASTM D5185m <1 <1 1 Magnesium ppm ASTM D5185m 897 913 1024 Calcium ppm ASTM D5185m 1055 1096 1258 Phosphorus ppm ASTM D5185m 760 975 987 1136 Zinc ppm ASTM D5185m 760 975 987 1136 Zinc ppm ASTM D5185m 760 975 987 1136 Zinc ppm ASTM D5185m 800 1222 1216 1403 Sulfur ppm ASTM D5185m 3000 3432 3239 3746 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 0 2 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 1.9 0.5	Nolybdenum	ppm	ASTM D5185m		58	63	71
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Silicon ppm ASTM D5185m >25 9 14 11 Sodium ppm ASTM D5185m >20 4 3 7 Potassium ppm ASTM D5185m >20 0 2 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 1.9 0.5 0.9 Nitration Abs/cm *ASTM D7624 >20 10.0 7.0 9.4 Soulfation Abs/cm *ASTM D7615 >30 22.2 18.4 21.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.1 13.5 16.7	Sulfur		ASTM D5185m	3000	3432	3239	3746
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Soot % % *ASTM D7844 >6 1.9 0.5 0.9 Nitration Abs/cm *ASTM D7624 >20 10.0 7.0 9.4 Sulfation Abs/.1mm *ASTM D7415 >30 22.2 18.4 21.0 FLUID DEGRADATION method limit/base current history1 history2 Dxidation Abs/.1mm *ASTM D7414 >25 15.1 13.5 16.7	Potassium	ppm	ASTM D5185m	>20	0	2	2
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Sulfation Abs/.1mm *ASTM D7415 >30 22.2 18.4 21.0 FLUID DEGRADATION method limit/base current history1 history2 Dxidation Abs/.1mm *ASTM D7414 >25 15.1 13.5 16.7	Nitration	Abs/cm	*ASTM D7624	>20	10.0	7.0	9.4
Dxidation Abs/.1mm *ASTM D7414 >25 15.1 13.5 16.7	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	18.4	21.0
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Dxidation	Abs/.1mm	*ASTM D7414	>25	15.1	13.5	16.7

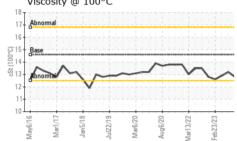




OIL ANALYSIS REPORT







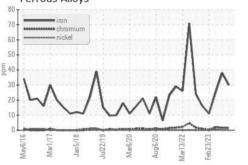
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	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	14.6	12.8	13.2	12.9
GRAPHS						

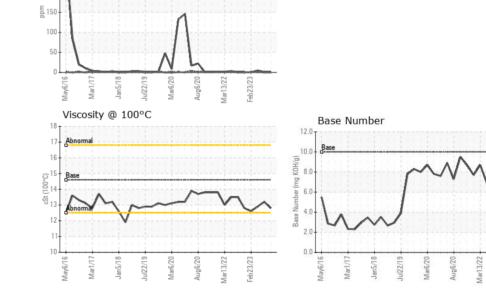
Ferrous Alloys

Non-ferrous Metals

300

250 200





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 035 - Greensboro Sample No. : GFL0116425 Received : 03 Apr 2024 1236 Elon Place Lab Number : 06137226 Tested : 04 Apr 2024 High Point, NC Unique Number : 10956691 Diagnosed : 05 Apr 2024 - Don Baldridge US 27263 Test Package : FLEET Contact: JORGE COSTA Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. jorge.costa@gflenv.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (336)668-3712 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Report Id: GFL035 [WUSCAR] 06137226 (Generated: 04/05/2024 12:53:07) Rev: 1

Submitted By: JORGE COSTA Page 2 of 2

Feb 23/23