

OIL ANALYSIS REPORT

Sample Rating Trend

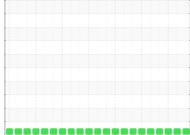




Machine Id 928052-172553

Component **Diesel Engine** Fluid

CHEVRON DELO 400 MULTIGRADE 15W40 (--- LTR)

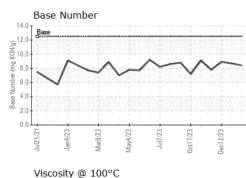


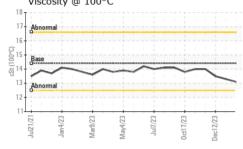


DIAGNOSIS	SAMPLE INFOF		method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0103444	GFL0025059	GFL0098446
Resample at the next service interval to monitor.	Sample Date		Client Info		29 Jan 2024	10 Jan 2024	12 Dec 2023
Vear	Machine Age	hrs	Client Info		17901	17764	17616
Il component wear rates are normal.	Oil Age	hrs	Client Info		2827	2690	2542
	Oil Changed		Client Info		N/A	N/A	Not Changd
Contamination	Sample Status				NORMAL	NORMAL	NORMAL
here is no indication of any contamination in the il.	CONTAMINAT		method	limit/base		history1	history2
Fluid Condition The BN result indicates that there is suitable		IUN			current	,	
	Fuel		WC Method		<1.0	<1.0	<1.0
kalinity remaining in the oil. The condition of the	Water		WC Method	>0.2	NEG	NEG	NEG
l is suitable for further service.	Glycol		WC Method		NEG	NEG	NEG
	WEAR METAL	S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	6	5	<1
	Chromium	ppm	ASTM D5185m	>20	<1	0	0
	Nickel	ppm	ASTM D5185m	>5	0	0	<1
	Titanium	ppm	ASTM D5185m	>2	0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	<1
	Aluminum	ppm	ASTM D5185m	>20	3	2	2
	Lead	ppm	ASTM D5185m	>40	<1	0	0
	Copper	ppm	ASTM D5185m	>330	6	5	5
	Tin	ppm	ASTM D5185m		<1	0	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	151	34	41	44
	Barium	ppm	ASTM D5185m	0.4	0	0	0
	Molybdenum	ppm	ASTM D5185m		75	73	72
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	0	873	889	852
	Calcium	ppm	ASTM D5185m		1102	1134	1085
	Phosphorus	ppm	ASTM D5185m	1043	990	965	1012
	Zinc	ppm	ASTM D5185m		1202	1185	1171
	Sulfur	ppm	ASTM D5185m		3065	3054	3030
	CONTAMINAN	NTS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	4	3	3
	Onicon				_	0	
	Sodium	ppm	ASTM D5185m		7	3	4
			ASTM D5185m ASTM D5185m	>20	7 4	3 <1	4
	Sodium	ppm		>20 limit/base	4		
	Sodium Potassium	ppm	ASTM D5185m	limit/base	4	<1	2
	Sodium Potassium INFRA-RED	ppm ppm	ASTM D5185m method *ASTM D7844	limit/base >4	4 current	<1 history1	2 history2
	Sodium Potassium INFRA-RED Soot %	ppm ppm %	ASTM D5185m method *ASTM D7844 *ASTM D7624	limit/base >4 >20	4 current 0.4	<1 history1 0.2	2 history2 0.2
	Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >4 >20	4 current 0.4 6.8	<1 history1 0.2 5.9	2 history2 0.2 5.3
	Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >4 >20 >30 limit/base	4 current 0.4 6.8 18.4	<1 history1 0.2 5.9 18.0	2 history2 0.2 5.3 17.7



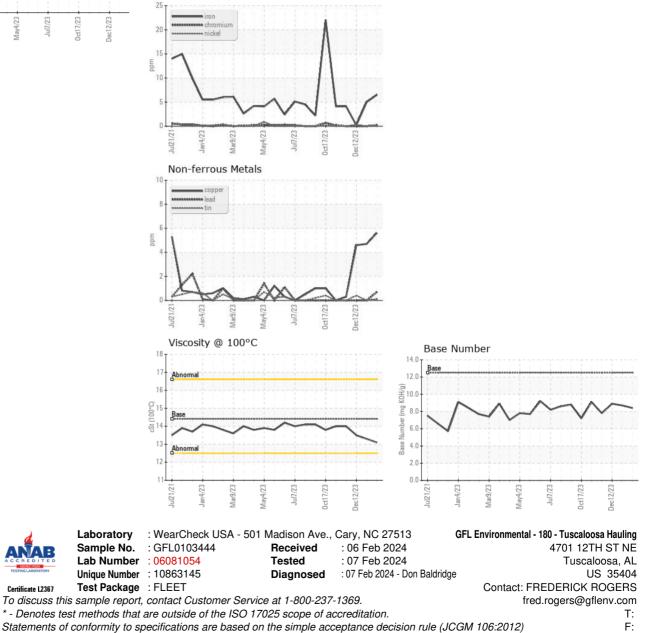
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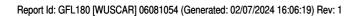




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	13.1	13.3	13.5
GRAPHS						

Ferrous Alloys





Submitted By: see also GFL868 - Chelsea Bryan