

OIL ANALYSIS REPORT

Sample Rating Trend

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Machine Id 4280 Component Diesel E Fluid CHEVRO

428050-402357 Component Diesel Engine

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

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0115402	GFL0122960	GFL0115438
Sample Date		Client Info		27 Jun 2024	11 Jun 2024	19 May 2024
Machine Age	hrs	Client Info		14844	14721	14556
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	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 METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	9	9	7
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	8	8	6
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	ء <1	0	0
Aluminum	ppm	ASTM D5185m	>20	4	3	2
Lead	ppm	ASTM D5185m	>40	- <1	<1	0
			>330	2	1	<1
Copper Tin	ppm					<1
	ppm	ASTM D5185m	>15	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		47	52	87
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		76	80	80
Manganese	ppm	ASTM D5185m		1	0	<1
Magnesium	ppm	ASTM D5185m		921	838	911
Calcium	ppm	ASTM D5185m		1391	1159	1214
Phosphorus	ppm	ASTM D5185m	1360	975	908	996
Zinc	ppm	ASTM D5185m	1480	1242	1115	1172
Sulfur	ppm	ASTM D5185m		3367	2846	3365
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	6	6
Sodium	ppm	ASTM D5185m		4	2	3
Deterritori	ppm	ASTM D5185m	>20	3	2	0
Potassium	ppin					
INFRA-RED	ppm	method	limit/base	current	history1	history2
	%			current 0.5	history1 0.4	history2 0.2
INFRA-RED		method	limit/base			
INFRA-RED Soot %	%	method *ASTM D7844	limit/base >4 >20	0.5	0.4	0.2
INFRA-RED Soot % Nitration	% Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624	limit/base >4 >20	0.5 8.5	0.4 7.9	0.2 7.5
INFRA-RED Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >4 >20 >30	0.5 8.5 20.5	0.4 7.9 20.3	0.2 7.5 19.7

DIAGNOSIS Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

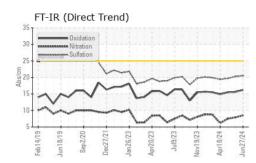
There is no indication of any contamination in the oil.

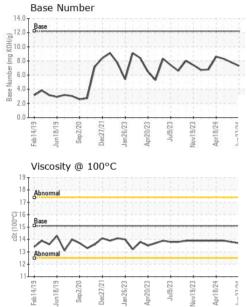
Fluid Condition

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

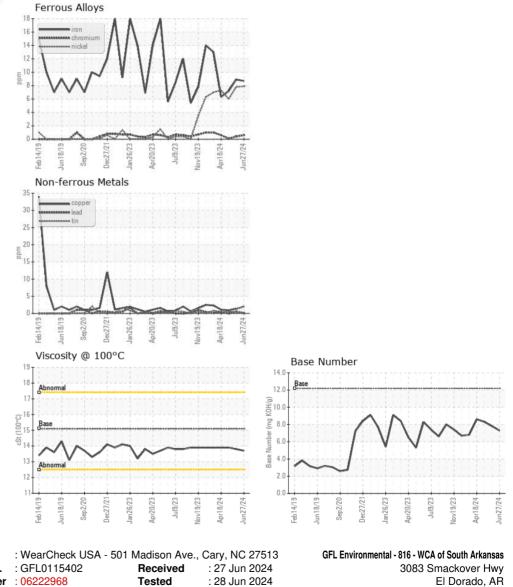


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	15.1	13.7	13.8	13.9
GRAPHS						





Laboratory Sample No. Lab Number : 06222968 Tested : 28 Jun 2024 Unique Number : 11101165 Diagnosed : 30 Jun 2024 - Don Baldridge Test Package : FLEET Contact: Mike Howell Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. mike.howell@gflenv.com

* - 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)

US 71730

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