

OIL ANALYSIS REPORT

Sample Rating Trend



420029-402256 Component

Diesel Engine Fluid

Machine Id

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

					2 Mar2023 Jun2023 Jul2023	0002023	
DIAGNOSIS	SAMPLE INFO	RMATION		limit/base		history1	history2
ecommendation	Sample Number		Client Info		GFL0086403	GFL0086384	GFL0074778
esample at the next service interval to monitor.	Sample Date		Client Info		19 Nov 2023	16 Oct 2023	08 Aug 2023
ear	Machine Age	hrs	Client Info		6998	6857	6715
component wear rates are normal.	Oil Age	hrs	Client Info		0	0	0
ontamination	Oil Changed		Client Info		N/A	N/A	N/A
There is no indication of any contamination in the bil.	Sample Status				NORMAL	NORMAL	NORMAL
	CONTAMINA	TION	method	limit/base	current	history1	history2
Fluid Condition The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the bil is suitable for further service.	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	WEAR META	LS	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>80	22	20	16
	Chromium	ppm	ASTM D5185m	>5	1	<1	1
	Nickel	ppm	ASTM D5185m		0	<1	<1
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		3	3	3
	Lead	ppm	ASTM D5185m		4	3	3
	Copper		ASTM D5185m		3	2	1
	Tin	ppm	ASTM D5185m		۔ <1	1	<1
	Vanadium	ppm		>0			
		ppm	ASTM D5185m		<1 0	<1	<1
	Cadmium	ppm	ASTM D5185m		-	<1	0
	ADDITIVES		method	limit/base		history1	history2
	Boron	ppm	ASTM D5185m		7	7	8
	Barium	ppm	ASTM D5185m		0	10	1
	Molybdenum	ppm	ASTM D5185m		67	69	68
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		990	904	918
	Calcium	ppm	ASTM D5185m		1218	1129	1175
	Phosphorus	ppm	ASTM D5185m	1360	1138	1014	1038
	Zinc	ppm	ASTM D5185m	1480	1375	1243	1257
	Sulfur	ppm	ASTM D5185m		3261	3151	3232
	CONTAMINA	NTS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>20	8	6	6
	Sodium	ppm	ASTM D5185m		3	2	4
	Potassium	ppm	ASTM D5185m	>20	3	4	2
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>3	0.6	0.6	0.4
	Nitration	Abs/cm	*ASTM D7624		9.3	8.7	7.4
	Sulfation	Abs/.1mm	*ASTM D7415		21.1	20.5	19.2
	FLUID DEGRA		method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4	16.9	15.1
							0.4

Base Number (BN) mg KOH/g ASTM D2896 12.2

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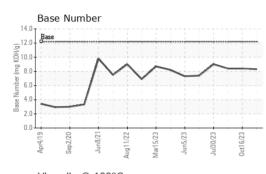
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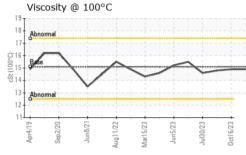
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8.3

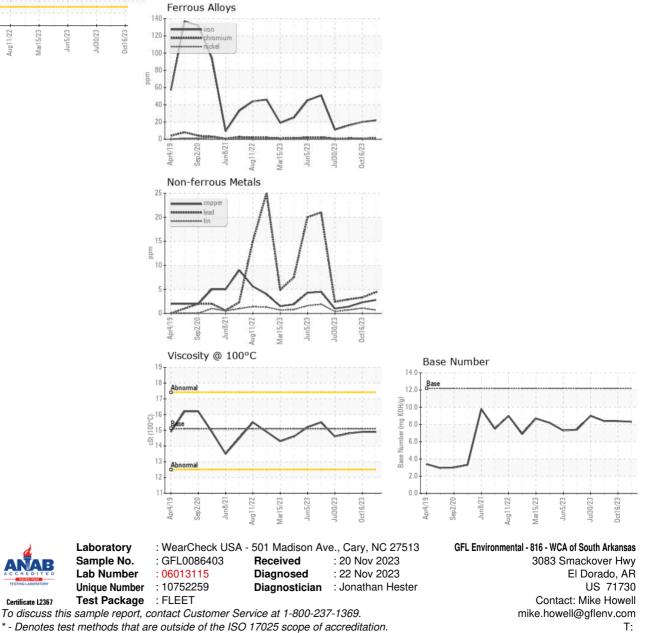


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	14.9	14.9	14.8
GRAPHS						



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: Mike Howell - GFL816

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