

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id 422024-402273 Component

Diesel Engine Fluic

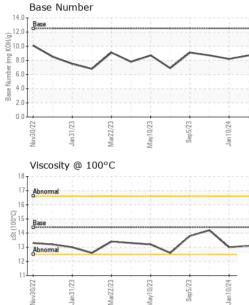
CHEVRON DELO 400 MULTIGRADE 15W40 (--- GAL)

DIAGNOSIS	SAMPLE INFOR	RMATION	method	limit/base	e current	history1	history2
commendation	Sample Number		Client Info		GFL0103440	GFL0025058	GFL0098454
sample at the next service interval to monitor.	Sample Date		Client Info		24 Jan 2024	10 Jan 2024	07 Nov 2023
ear	Machine Age	hrs	Client Info		3267	3249	3119
component wear rates are normal.	Oil Age	hrs	Client Info		843	825	695
ntamination	Oil Changed		Client Info		Not Changd	N/A	N/A
ere is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
	CONTAMINA	ΓΙΟΝ	method	limit/base	e current	history1	history2
Fluid Condition	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
alinity remaining in the oil. The condition of the	Water		WC Method	>0.2	NEG	NEG	NEG
is suitable for further service.	Glycol		WC Method		NEG	NEG	NEG
	WEAR META	_S	method	limit/base	e current	history1	history2
	Iron	ppm	ASTM D5185m	>120	5	11	6
	Chromium	ppm	ASTM D5185m	>20	0	<1	<1
	Nickel	ppm	ASTM D5185m	>5	<1	5	0
	Titanium	ppm	ASTM D5185m	>2	0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	<1
	Aluminum	ppm	ASTM D5185m	>20	3	4	2
	Lead	ppm	ASTM D5185m	>40	0	0	<1
	Copper	ppm	ASTM D5185m	>330	0	12	<1
	Tin	ppm	ASTM D5185m	>15	0	<1	0
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	e current	history1	history2
	Boron	ppm	ASTM D5185m	151	38	55	88
	Barium	ppm	ASTM D5185m	0.4	0	0	6
	Molybdenum	ppm	ASTM D5185m		72	74	73
	Manganese	ppm	ASTM D5185m		<1	<1	0
	Magnesium	ppm	ASTM D5185m	0	846	874	819
	Calcium	ppm	ASTM D5185m	2046	1051	1176	1113
	Phosphorus	ppm	ASTM D5185m	1043	957	947	954
	Zinc	ppm	ASTM D5185m	943	1169	1141	1101
	Sulfur	ppm	ASTM D5185m	5012	2912	2990	3183
	CONTAMINA	NTS	method	limit/base	e current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	4	6	4
	Sodium	ppm	ASTM D5185m		3	3	0
	Potassium	ppm	ASTM D5185m	>20	<1	2	3
	INFRA-RED		method	limit/base	e current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.2	0.3	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	5.8	7.3	5.8
			*ASTM D7415	>30	17.8	19.3	19.2
	Sulfation	Abs/.1mm	ASTIVI D7415	200			
	Sulfation			limit/base		history1	
		DATION		limit/base			history2

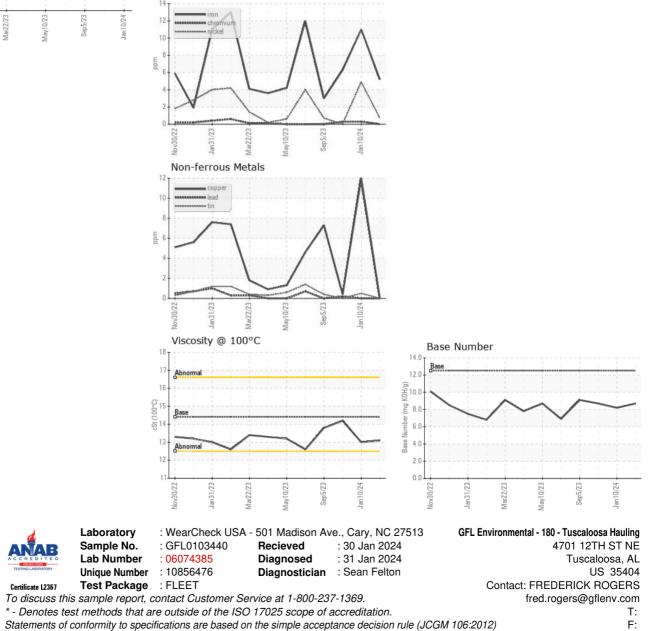


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Ferrous Alloys



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	13.0	14.2
GRAPHS						



Submitted By: see also GFL868 - Chelsea Bryan