

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 11147

Component

Diesel Engine Fluid

CHEVRON DELO 400 SDE SAE 15W40 (--- GA

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

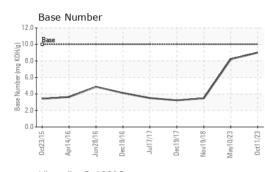
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

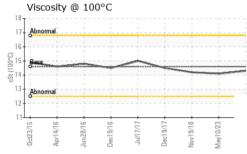
AL)		Oct2015 Apr	2016 Jun2016 Dec2016	Jul2017 Dec2017 Nov2018 May20	23 Oct2023	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0094915	GFL0070037	GFLI-204635
Sample Date		Client Info		11 Oct 2023	10 May 2023	19 Nov 2018
Aachine Age r	nls	Client Info		126286	0	70289
Dil Age r	nls	Client Info		70289	0	12488
Dil Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIC	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	0.5
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
ron p	opm	ASTM D5185m	>100	7	36	56
Chromium p	opm	ASTM D5185m	>20	2	0	1
lickel p	opm	ASTM D5185m	>4	<1	0	1
ītanium p	opm	ASTM D5185m		<1	0	0
Silver p	opm	ASTM D5185m	>3	0	0	0
luminum p	opm	ASTM D5185m	>20	4	5	5
ead p	opm	ASTM D5185m	>40	<1	2	8
Copper p	opm	ASTM D5185m	>330	<1	2	2
ïn β	opm	ASTM D5185m	>15	0	<1	0
ntimony p	opm	ASTM D5185m				0
anadium p	opm	ASTM D5185m		0	0	0
Cadmium p	opm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron p	opm	ASTM D5185m		1	21	194
Barium p	opm	ASTM D5185m		0	0	0
/olybdenum p	opm	ASTM D5185m		58	65	118
langanese p	opm	ASTM D5185m		0	0	0
	opm	ASTM D5185m		907	988	591
Calcium	opm	ASTM D5185m		1043	1315	1590
Phosphorus p	opm	ASTM D5185m	760	1038	1098	759
linc p	opm	ASTM D5185m	800	1195	1344	866
Sulfur p	opm	ASTM D5185m	3000	3408	3743	
ithium p	opm	ASTM D5185m				0
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon p	opm	ASTM D5185m	>25	6	9	9
Sodium p	opm	ASTM D5185m		2	1	2
Potassium p	opm	ASTM D5185m	>20	1	6	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.7	0.5
Nitration A	Abs/cm	*ASTM D7624	>20	5.2	11.3	11
Sulfation A	Abs/.1mm	*ASTM D7415	>30	17.7	20.1	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Dxidation A	Abs/.1mm	*ASTM D7414	>25	13.6	18.3	16

Submitted By: ROBERT THIBAULT

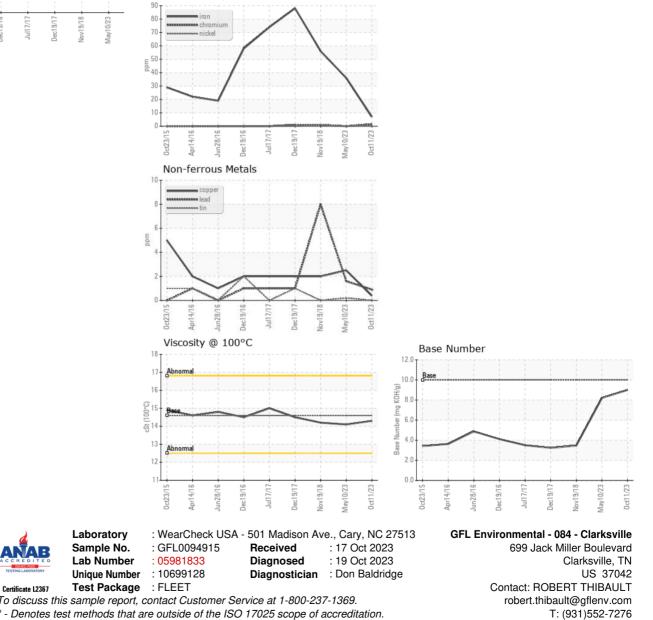


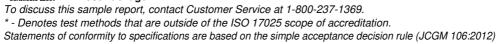
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.6	14.3	14.1	14.2
GRAPHS						
Ferrous Alloys						





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