

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 927022-597 Component

Diesel Engine

CHEVRON DELO 400

-	-11	μ.		1
	2		3	

Resample at the next service interval to monitor.

There is no indication of any contamination in the

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

All component wear rates are normal.

oil is suitable for further service.

DIAGNOSIS Recommendation

Contamination

Fluid Condition

Wear

oil.

(LE 15W40 (•	Jun2021 S	Sep2021 Feb2022 Dec20	22 Jan2023 Jun2023 Sep202	3 Nov2023	historia a
SAMPLE INFOR	RMATION		limit/base	current	history1	history2
Sample Number		Client Info		GFL0096311	GFL0064423	GFL0064373
Sample Date		Client Info		28 Nov 2023	11 Sep 2023	20 Jun 2023
Machine Age	hrs	Client Info		19187	18615	18019
Oil Age Oil Changed	hrs	Client Info Client Info		0 Not Changd	597 Changed	579 Changed
Sample Status		Chefit Inio		NORMAL	Changed NORMAL	NORMAL
	TION		11 11 11	-	-	
CONTAMINA	TION	method	limit/base		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 META	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	12	16	31
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		6	11	10
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		4	1	5
Lead	ppm	ASTM D5185m	>40	0	<1	1
Copper	ppm	ASTM D5185m		<1	1	2
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium Cadmium	ppm	ASTM D5185m ASTM D5185m		0	<1 0	<1 0
	ppm			-		-
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		153	53	34
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		85	52	61
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium Calcium	ppm	ASTM D5185m		632 1427	764 1678	679 1649
Phosphorus	ppm	ASTM D5185m ASTM D5185m	760	691	735	725
Zinc	ppm ppm	ASTM D5185m	830	802	877	858
Sulfur	ppm	ASTM D5185m	2770	2604	3525	4124
CONTAMINA		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	13	11	6
Sodium	ppm	ASTM D5185m	-	3	5	7
Potassium	ppm	ASTM D5185m	>20	4	4	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.4	0.7	1.2
Nitration	Abs/cm	*ASTM D7624	>20	10.1	10.4	13.2
Sulfation	Abc/1mm	*ASTM D7/15	. 20	22.2	00.4	20.2

FLUID DEGRADATION method Oxidation Abs/.1mm *ASTM D7414 >25 18.2 18.1 24.9 Base Number (BN) mg KOH/g ASTM D2896 10.7 6.9 6.2 5.3

Abs/.1mm *ASTM D7415 >30

22.3

Sulfation

29.2

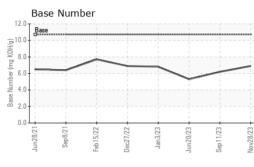
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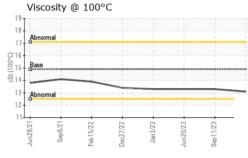
22.4



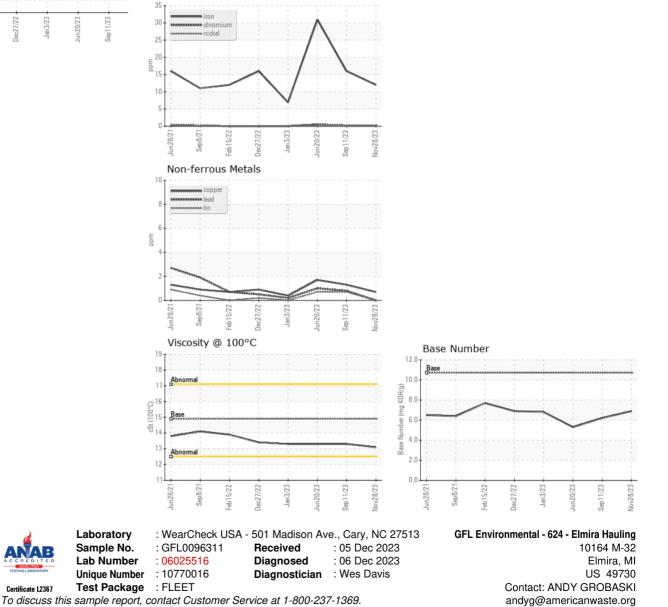
OIL ANALYSIS REPORT

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	14.9	13.1	13.3	13.3
GRAPHS						



* - 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)

Certificate L2367

F:

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