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OIL ANALYSIS REPORT

(62A0X13) ALEXANDER CITY 723009-234528

Component **Diesel Engine**

Fluid

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





		· /	Ap	rž023	Aug2023 Jan20	24	
DIAGNOSIS	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0080724	GFL0081910	GFL0072592
No corrective action is recommended at this time.	Sample Date		Client Info		02 Jan 2024	18 Aug 2023	07 Apr 2023
Resample at the next service interval to monitor.	Machine Age	hrs	Client Info		24849	21139	22833
Wear	Oil Age	hrs	Client Info		24849	21139	22833
All component wear rates are normal.	Oil Changed		Client Info		N/A	Not Changd	N/A
Contamination	Sample Status				ATTENTION	NORMAL	ATTENTION
Fuel content negligible. There is no indication of any contamination in the oil.	CONTAMINA	TION	method	limit/base	current	history1	history2
Fluid Condition	Water		WC Method	>0.2	NEG	NEG	NEG
The oil viscosity is lower than normal. The BN result	Glycol		WC Method		NEG	NEG	NEG
indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	WEAR META	LS	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	10	4	10
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	3	1	4
	Titanium	ppm	ASTM D5185m	>2	<1	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	13	8	14
	Lead	ppm	ASTM D5185m	>40	<1	0	<1
	Copper	ppm	ASTM D5185m	>330	4	2	2
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	151	14	22	38
	Barium	ppm	ASTM D5185m	0.4	0	0	2
	Molybdenum	ppm	ASTM D5185m	250	58	65	68
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	0	865	940	798
	Calcium	ppm	ASTM D5185m	2046	986	1171	1134
	Phosphorus	ppm	ASTM D5185m	1043	999	1084	968
	Zinc	ppm	ASTM D5185m	943	1174	1273	1122
	Sulfur	ppm	ASTM D5185m	5012	3130	3866	2947
	CONTAMINA	NTS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	6	5	15
	Sodium	ppm	ASTM D5185m		2	3	0
	Potassium	ppm	ASTM D5185m	>20	4	3	3
	Fuel	%	ASTM D3524	>3.0	2.3	<1.0	1.4
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	1.6	0.6	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	8.7	5.7	6.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	17.8	16.1
			mothod	limit/base	ourroot	history1	history
	- FLOID DEGRA		method	- inni/base		history	- nistory2

Abs/.1mm *ASTM D7414 >25

Base Number (BN) mg KOH/g ASTM D2896 12.5

12.6

8.3

Oxidation

13.1

7.5

12.5

9.0



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	method	limit/base	current	history1	history2
scalar	*Visual	NONE	NONE	NONE	NONE
scalar	*Visual	NONE	NONE	NONE	NONE
scalar	*Visual	NONE	NONE	NONE	NONE
scalar	*Visual	NONE	NONE	NONE	NONE
scalar	*Visual	NONE	NONE	NONE	NONE
scalar	*Visual	NONE	NONE	NONE	NONE
scalar	*Visual	NORML	NORML	NORML	NORML
scalar	*Visual	NORML	NORML	NORML	NORML
scalar	*Visual	>0.2	NEG	NEG	NEG
scalar	*Visual		NEG	NEG	NEG
RTIES	method	limit/base	current	history1	history2
cSt	ASTM D445	14.4	12.3	13.3	▲ 12.2
		/			
	/	/			
	/	/			
	/	/			
\checkmark	/				
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Non-ferrous Metals

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

Certificate L2367

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