

OIL ANALYSIS REPORT

Sample Rating Trend



DIAGNOSIS

wear rates are normal. Contamination

Fluid Condition

to monitor.

oil.

service.

Area (YA139881) Machine Id 10831 Component Diesel Engine

Fluid

Oil and filter change at the time of sampling has been noted. Resample at the next service interval

The nickel level is abnormal. All other component

There is no indication of any contamination in the

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in

CHEVRON DELO 400 SDE SAE 15W40 (--- GAL)

SAMPLE INFOR	MATION	method	limit/base	current	history1	history
Sample Number		Client Info		GFL0109512	GFL0048090	GFL004809
Sample Date		Client Info		15 Feb 2024	16 Sep 2022	04 Sep 202
Machine Age	hrs	Client Info		10108	3707	3669
Oil Age	hrs	Client Info		600	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history
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 METAL	S	method	limit/base	current	history1	history
Iron	maa	ASTM D5185m	>120	27	11	10
Chromium	nnm	ASTM D5185m	>20	2	<1	<1
Nickel	nom	ASTM D5185m	>5	- 23	<1	<1
Titanium	npm	ASTM D5185m	>2	0	0	0
Silver	nom	ASTM D5185m	>2	0	0	<1
Aluminum	npm	ASTM D5185m	>20	9	4	4
Lead	nnm	ASTM D5185m	<u>>40</u>	د د1	0	-21
Copper	nnm	ASTM D5185m	< <u>330</u>	11	2	2
Tin	nnm	ASTM D5185m	>15	-1	0	~1
Vanadium	ppm	AGTM D5105m	>10	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	_1
	ppm	method	limit/base	current	bistory1	history
			in in base	-	nistory i	10
Boron	ppm	ACTM DE105m		7		13
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m		59	60	60
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m		913	890	849
Calcium	ppm	ASTM D5185m		1166	1094	1053
Phosphorus	ppm	ASTM D5185m	760	1021	977	972
Zinc	ppm	ASTM D5185m	800	1281	1200	1189
Sulfur	ppm	ASTM D5185m	3000	2978	3540	3028
CONTAMINAN	ITS	method	limit/base	current	history1	history
Silicon	ppm	ASTM D5185m	>25	12	2	3
Sodium	ppm	ASTM D5185m		5	45	2
Potassium	ppm	ASTM D5185m	>20	3	3	1
INFRA-RED		method	limit/base	current	history1	history
Soot %	%	*ASTM D7844	>4	0.6	0.7	0.6
Nitration	Abs/cm	*ASTM D7624	>20	9.0	8.1	7.7
T that off				10.0	10.0	10 -
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	19.8	19.7
Sulfation FLUID DEGRA	Abs/.1mm	*ASTM D7415 method	>30 limit/base	19.6 current	19.8 history1	19.7 history
Sulfation FLUID DEGRA Oxidation	Abs/.1mm DATION Abs/.1mm	*ASTM D7415 method *ASTM D7414	>30 limit/base >25	19.6 current 15.3	19.8 history1 14.5	19.7 history 14.2



Ba

13

10

Sep26/17

kor26/1

un3/19

Mav15/20

OIL ANALYSIS REPORT





Dec7/20

Apr24/21.

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
	DTIEC	mathad	limit/bass	ouwroat	biotonut	biotory 0
	RIIES	method	iinii/base	current	riistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	14.6	13.7	13.9	14.2
GRAPHS						

Ferrous Alloys



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

Certificate L2367

Submitted By: SAM SETZER

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