

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 10439 Component

Diesel Engine

CHEVRON DELO 400 SDE SAE 15W40 (34 QTS)

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

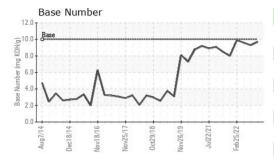
Fluid Condition

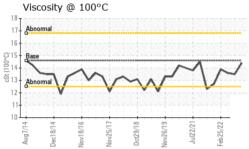
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Q10)		g2014 Dec20	14 Nov2016 Nov2017	Oct2018 Nov2019 Jul2021	Feb 2022	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0076953	GFL0064940	GFL0055785
Sample Date		Client Info		21 Jul 2023	03 Jan 2023	11 Jul 2022
Machine Age	hrs	Client Info		16018	0	16018
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	4	15	15
Chromium	ppm	ASTM D5185m	>5	<1	1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	1	2	2
Lead	ppm	ASTM D5185m	>25	0	2	<1
Copper	ppm	ASTM D5185m	>100	0	1	1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Antimony	ppm	ASTM D5185m				
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		9	6	7
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		63	61	62
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		1008	1001	971
Calcium	ppm	ASTM D5185m		1190	1239	1132
Phosphorus	ppm	ASTM D5185m	760	1131	1047	1057
Zinc	ppm	ASTM D5185m	800	1352	1375	1311
Sulfur	ppm	ASTM D5185m	3000	4087	3857	3606
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	7	5
Sodium	ppm	ASTM D5185m		2	4	3
Potassium	ppm	ASTM D5185m	>20	<1	2	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.2	0.8	0.7
Nitration	Abs/cm	*ASTM D7624	>20	5.0	9.3	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.4	20.6	22.2
FLUID DEGRAD	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.1	16.2	17.5
Base Number (BN)	mg KOH/g	ASTM D2896	10	9.7	9.3	9.6



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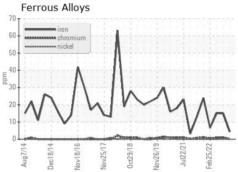


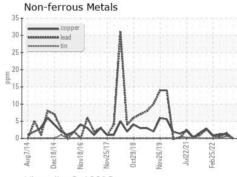


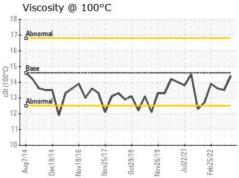
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

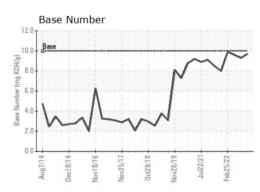
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	14.6	14.4	13.5	13.6

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

: GFL0076953 : 05905275 Unique Number : 10566631

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Jul 2023 Diagnosed : 25 Jul 2023

Diagnostician : Sean Felton

GFL Environmental - 020 - Alamance

703 East Gilbreath St Graham, NC US 27253

F: (336)229-0526

Contact:

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To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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)