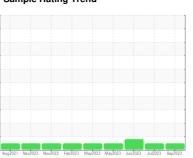


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **929054-182539**

Component

Diesel Engine

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

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.

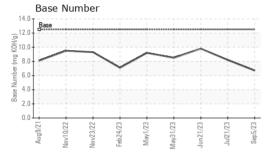
Fluid Condition

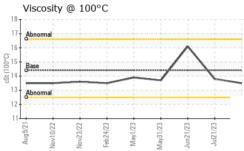
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Aug/2021 Nov/2022 Nov/2022 Feb/2023 May/2023 Jun/2023 Jun/2023 Sep/2023						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0078703	GFL0045446	GFL0045426
Sample Date		Client Info		05 Sep 2023	21 Jul 2023	21 Jun 2023
Machine Age	hrs	Client Info		10819	10545	10283
Oil Age	hrs	Client Info		662	388	126
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	14	8	14
Chromium	ppm	ASTM D5185m	>4	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	7	4	6
Lead	ppm	ASTM D5185m	>45	0	<1	2
Copper	ppm	ASTM D5185m	>85	3	53	<u>^</u> 74
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	151	64	119	158
Barium	ppm	ASTM D5185m	0.4	0	0	<1
Molybdenum	ppm	ASTM D5185m	250	97	98	81
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m	0	879	749	742
Calcium	ppm	ASTM D5185m	2046	1466	1439	1744
Phosphorus	ppm	ASTM D5185m	1043	907	795	778
Zinc	ppm	ASTM D5185m	943	1161	1045	1267
Sulfur	ppm	ASTM D5185m	5012	3543	2977	3535
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	5	4	7
Sodium	ppm	ASTM D5185m		2	0	4
Potassium	ppm	ASTM D5185m	>20	3	4	17
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.1	8.0	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	21.4	22.2
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.7	16.3	17.9
Base Number (BN)	mg KOH/g		12.5	6.7	8.2	9.8
Dase Mulliber (DIN)	ilig NOn/g	49 LIVI D5030	12.5	0.7	0.2	3.0



OIL ANALYSIS REPORT

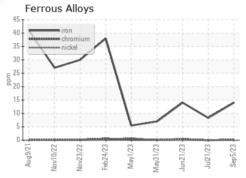


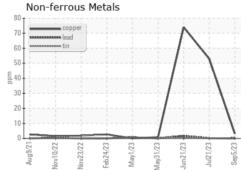


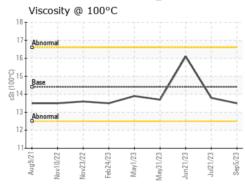
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

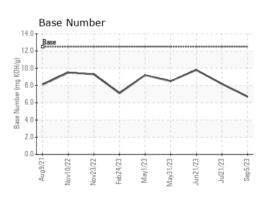
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	14.4	13.5	13.8	16.1

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10642850 Test Package : FLEET

: 05946891

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0078703 Received

Diagnosed

: 11 Sep 2023 : 13 Sep 2023 Diagnostician : Don Baldridge GFL environmental - 867 - Trafford (Blount Hauling)

1130 County Line Rd Trafford, AL US 35172

Contact: Jonathan Williams jonathan.williams@gflenv.com

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)

Report Id: GFL867 [WUSCAR] 05946891 (Generated: 09/13/2023 10:23:03) Rev: 1

Submitted By: see also GFL868 - Chelsea Bryan

T:

F: