

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id 411001-411001 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.

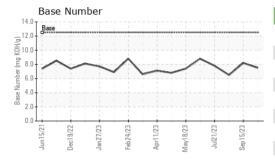
Fluid Condition

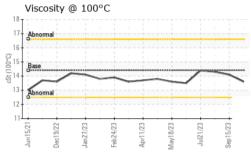
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Inni2021 Dnc2022 Jan2023 Fab2023 Apr2023 May2023 Jud023 Snp2023							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0098455	GFL0051136	GFL0086322	
Sample Date		Client Info		07 Nov 2023	15 Sep 2023	25 Aug 2023	
Machine Age	hrs	Client Info		7699	7379	0	
Oil Age	hrs	Client Info		6379	6059	0	
Oil Changed		Client Info		N/A	Not Changd	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	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 METAL	S	method	limit/base	current	history1	history2	
ron	ppm	ASTM D5185m	>120	5	<1	7	
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>5	<1	0	<1	
Titanium	ppm	ASTM D5185m	>2	<1	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	3	0	6	
_ead	ppm	ASTM D5185m	>40	<1	0	<1	
Copper	ppm	ASTM D5185m	>330	5	<1	1	
Γin	ppm	ASTM D5185m	>15	<1	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	151	46	81	33	
Barium	ppm	ASTM D5185m	0.4	0	0	0	
Molybdenum	ppm	ASTM D5185m	250	79	73	79	
Manganese	ppm	ASTM D5185m		<1	<1	<1	
Magnesium	ppm	ASTM D5185m	0	884	907	903	
Calcium	ppm	ASTM D5185m	2046	1239	1221	1257	
Phosphorus	ppm	ASTM D5185m	1043	982	973	940	
Zinc	ppm	ASTM D5185m	943	1206	1192	1159	
Sulfur	ppm	ASTM D5185m	5012	2689	3626	3340	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	5	4	6	
Sodium	ppm	ASTM D5185m		3	2	6	
Potassium	ppm	ASTM D5185m	>20	3	<1	6	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.3	0.1	0.3	
Vitration	Abs/cm	*ASTM D7624	>20	7.9	6.0	8.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	19.6	21.6	
FLUID DEGRA	OATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	15.1	17.8	
Base Number (BN)	mg KOH/g	ASTM D2896	12.5	7.5	8.2	6.5	
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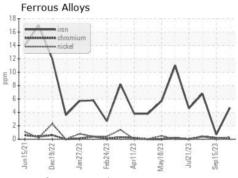


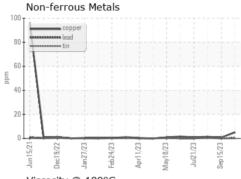


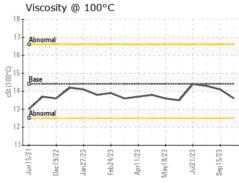
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

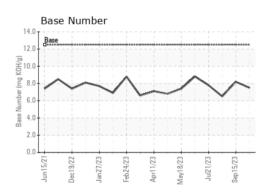
FLUID PROPE	KIIES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	13.6	14.1	14.3

GRAPHS













Laboratory

Sample No. Lab Number **Unique Number**

: GFL0098455 : 06003992

: 10737754 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 10 Nov 2023

Diagnosed : 14 Nov 2023 Diagnostician : Don Baldridge GFL Environmental - 180 - Tuscaloosa Hauling

4701 12TH ST NE Tuscaloosa, AL US 35404

Contact: FREDERICK ROGERS

fred.rogers@gflenv.com

T:

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)

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