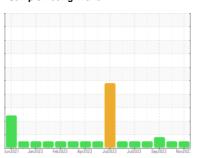


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 920056-102721

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.

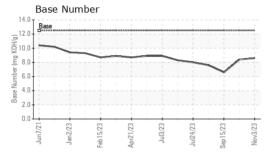
Fluid Condition

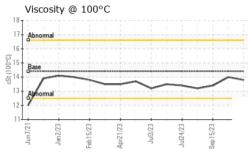
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

.0 (LTR)						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date		Client Info		GFL0098452 03 Nov 2023	GFL0073536 03 Oct 2023	GFL0073532 15 Sep 2023
Machine Age	hrs	Client Info		5619	5421	5333
Oil Age	hrs	Client Info		286	88	4251
Oil Changed	1113	Client Info		N/A	N/A	Changed
Sample Status		Ollerit IIIIO		NORMAL	NORMAL	ABNORMAL
	ION	.1	12 - 25 //			
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	8	7	19
Chromium	ppm	ASTM D5185m	>4	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	2	10	6
Lead	ppm	ASTM D5185m	>45	<1	<1	0
Copper	ppm	ASTM D5185m	>85	21	9	▲ 88
Tin	ppm	ASTM D5185m	>4	0	0	<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	91	73	56
Barium	ppm	ASTM D5185m	0.4	6	0	0
Molybdenum	ppm	ASTM D5185m	250	78	77	90
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	0	791	913	853
Calcium	ppm	ASTM D5185m	2046	1165	1198	1401
Phosphorus	ppm	ASTM D5185m	1043	929	948	879
Zinc	ppm	ASTM D5185m	943	1069	1232	1102
Sulfur	ppm	ASTM D5185m	5012	3248	3145	3239
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	4	4	6
Sodium	ppm	ASTM D5185m		0	2	2
Potassium	ppm	ASTM D5185m	>20	3	<1	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	6.2	6.9	9.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	20.2	22.1
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	15.2	17.8
Base Number (BN)	mg KOH/g	ASTM D2896	12.5	8.6	8.4	6.6
(211)						



OIL ANALYSIS REPORT

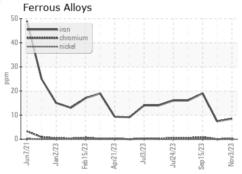


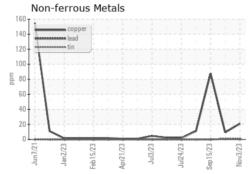


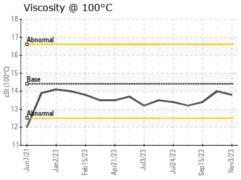
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

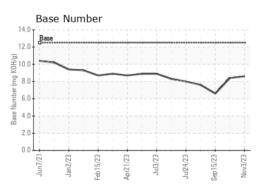
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	14.4	13.8	14.0	13.4	

GRAPHS













Certificate L2367

Test Package : FLEET

Laboratory Sample No. Lab Number

: GFL0098452 : 06006669 Unique Number : 10740431

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Nov 2023 : 14 Nov 2023

Diagnosed Diagnostician : Wes Davis GFL Environmental - 180 - Tuscaloosa Hauling

4701 12TH ST NE Tuscaloosa, AL US 35404

Contact: FREDERICK ROGERS

fred.rogers@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)

T:

F: