

# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id

429061-402470

Diesel Engine

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

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the

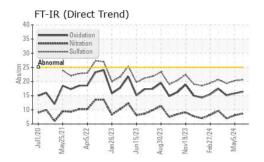
## **Fluid Condition**

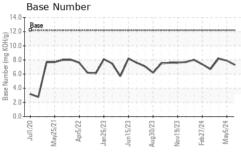
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

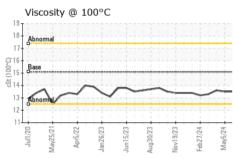
( GAL)		JIZOZO WIAYZO	zi Apizozz Sanzozs Si	unzoza Augzoza Novzoza Febzoz	-1 may2024				
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0115444	GFL0115411	GFL0102946			
Sample Date		Client Info		26 May 2024	05 May 2024	15 Apr 2024			
Machine Age	hrs	Client Info		9845	9690	9553			
Oil Age	hrs	Client Info		0	0	0			
Oil Changed		Client Info		N/A	N/A	N/A			
Sample Status				NORMAL	NORMAL	NORMAL			
CONTAMINAT	ION	method	limit/base	current	history1	history2			
Fuel		WC Method	>5	<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	history2			
Iron	ppm	ASTM D5185m	>110	13	12	6			
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1			
Nickel	ppm	ASTM D5185m	>2	0	0	0			
Titanium	ppm	ASTM D5185m		0	<1	<1			
Silver	ppm	ASTM D5185m	>2	0	0	0			
Aluminum	ppm	ASTM D5185m	>25	2	2	1			
Lead	ppm	ASTM D5185m	>45	1	1	<1			
Copper	ppm	ASTM D5185m	>85	0	3	0			
Tin	ppm	ASTM D5185m	>4	<1	0	<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		25	32	37			
Barium	ppm	ASTM D5185m		0	0	0			
Molybdenum	ppm	ASTM D5185m		72	75	67			
Manganese	ppm	ASTM D5185m		<1	<1	0			
Magnesium	ppm	ASTM D5185m		971	973	902			
Calcium	ppm	ASTM D5185m		1170	1243	1163			
Phosphorus	ppm	ASTM D5185m	1360	1054	1055	995			
Zinc	ppm	ASTM D5185m	1480	1274	1237	1185			
Sulfur	ppm	ASTM D5185m		3422	3445	3513			
CONTAMINAN	ITS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>30	5	6	3			
Sodium	ppm	ASTM D5185m		4	4	5			
Potassium	ppm	ASTM D5185m	>20	2	0	15			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.2			
Nitration	Abs/cm	*ASTM D7624		8.7	8.1	6.9			
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	20.3	19.3			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	15.8	15.1			
Base Number (BN)	mg KOH/g	ASTM D2896	12.2	7.3	7.9	8.2			
(211)									

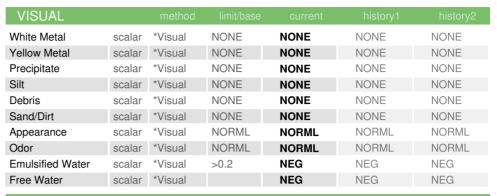


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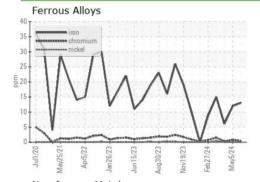


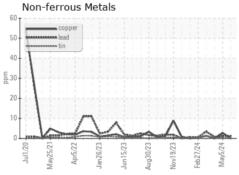


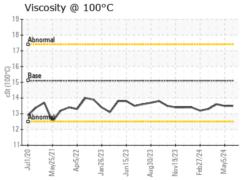


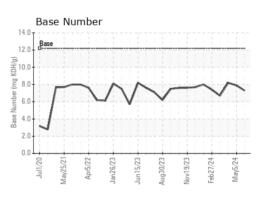
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	13.5	13.5	13.6

### **GRAPHS**













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0115444 Lab Number : 06191627 Unique Number : 11048379

Test Package : FLEET

Received : 24 May 2024 **Tested** : 29 May 2024 Diagnosed

: 29 May 2024 - Angela Borella

GFL Environmental - 816 - WCA of South Arkansas

3083 Smackover Hwy El Dorado, AR

US 71730 Contact: Mike Howell mike.howell@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: GFL816 [WUSCAR] 06191627 (Generated: 05/29/2024 18:36:50) Rev: 1

Submitted By: Nicole Walls

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