

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



DIAGNOSIS Recommendation

Contamination

Fluid Condition

Wear

oil.

Machine Id **1122M** nponent esel Engine TRO CANADA DURON SHP 15W40 (--- GAL)

Com Die
Fluid PE

Resample at the next service interval to monitor.

There is no indication of any contamination in the

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

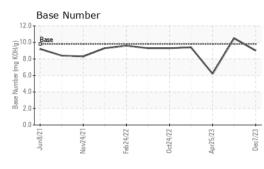
oil is suitable for further service.

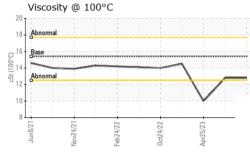
All component wear rates are normal.

N 50P 15W40 (-	- GAL)	Jun2021	Nov2021 Feb2022	0ct2022 Apr2023	Dec2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0105651	GFL0101562	GFL0081392
Sample Date		Client Info		07 Dec 2023	10 Nov 2023	25 Apr 2023
Machine Age	hrs	Client Info		12266	12086	11616
Oil Age	hrs	Client Info		12086	11616	10975
Oil Changed		Client Info		Not Changd	N/A	Changed
Sample Status				NORMAL	NORMAL	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	0.2	15.6
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	>200	17	12	20
Chromium	ppm	ASTM D5185m	>20	3	1	2
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>30	3	2	3
Lead	ppm	ASTM D5185m	>30	0	<1	0
Copper	ppm	ASTM D5185m	>30	12	16	<1
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	54	70	0
Barium	ppm	ASTM D5185m	0	0	1	0
Molybdenum	ppm	ASTM D5185m	60	38	42	48
Manganese	ppm	ASTM D5185m	0	2	2	<1
Magnesium	ppm	ASTM D5185m	1010	496	493	752
Calcium	ppm	ASTM D5185m	1070	1607	1606	845
Phosphorus	ppm	ASTM D5185m	1150	782	935	787
Zinc	ppm	ASTM D5185m	1270	1080	1076	1008
Sulfur	ppm	ASTM D5185m	2060	3077	3016	2565
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	5	8	5
Sodium	ppm	ASTM D5185m		6	2	6
Potassium	ppm	ASTM D5185m	>20	18	21	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.1	0.3
Nitration	Abs/cm	*ASTM D7624	>20	5.8	5.0	10.4
		*ACTM D741E	>30	22.4	22.3	19.7
Sulfation	Abs/.1mm	*ASTM D7415	>00	22.4	22.0	13.7
Sulfation FLUID DEGRAI			limit/base	current	history1	history2

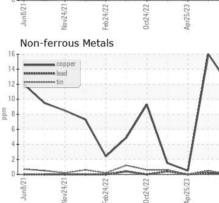


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.8	12.8	• 10.0
GRAPHS						
Ferrous Alloys						
0 iron 1		٨				
second chromium		/	1			
5 - nickel		$ \rangle$	1			
0-						
5-	_	V				
		V				
		and the second second				



Oct24/22 -

Apr25/23 .

Dec7/23 -

Dec7/23

Vov24/21.

Jun8/21

19

18 17

16 Ba

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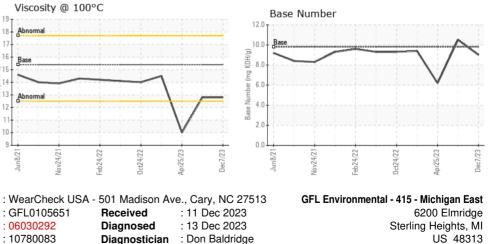
9. Jun8/21-

Unique Number : 10780083

Laboratory Sample No.

Lab Number

Abn





Test Package : FLEET Certificate L2367 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)

Nov24/21

: GFL0105651

: 06030292