

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

741007-310098

Component **Diesel Engine**

Fluid

PETRO CANADA DURON SHP 15W40 (--- GAL

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.

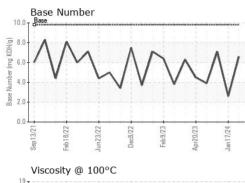
Fluid Condition

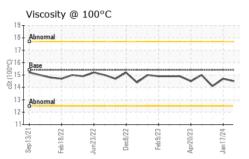
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

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AL)		ep2021 Fe	52022 Jun2022 De	cc2022 Feb2023 Apr2023	Jan2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0106849	GFL0078141	GFL0092096
Sample Date		Client Info		13 Feb 2024	17 Jan 2024	02 Dec 2023
Machine Age	hrs	Client Info		9171	8958	91207
Oil Age	hrs	Client Info		0	0	91207
Oil Changed		Client Info		N/A	Changed	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINATI	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 METALS	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>110	13	17	12
Chromium	ppm	ASTM D5185m	>4	<1	1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	14	13	1
_ead	ppm	ASTM D5185m	>45	0	<1	0
Copper	ppm	ASTM D5185m	>85	0	1	4
Γin	ppm	ASTM D5185m	>4	0	<1	0
/anadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	21	<1	7
Barium	ppm	ASTM D5185m	0	0	0	2
Nolybdenum	ppm	ASTM D5185m	60	46	51	55
Manganese	ppm	ASTM D5185m	0	0	1	0
Magnesium	ppm	ASTM D5185m	1010	568	537	636
Calcium	ppm	ASTM D5185m	1070	1572	1493	1331
Phosphorus	ppm	ASTM D5185m	1150	754	700	764
Zinc	ppm	ASTM D5185m	1270	925	882	981
Sulfur	ppm	ASTM D5185m	2060	2295	2150	2539
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	4	4	4
Sodium	ppm	ASTM D5185m		5	7	23
Potassium	ppm	ASTM D5185m	>20	0	0	20
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.2	11.1	9.1
	Abs/.1mm	*ASTM D7415	>30	19.6	23.4	19.3
Sulfation	/ 100/					
Sulfation FLUID DEGRAD		method	limit/base	current	history1	history2
		method *ASTM D7414	limit/base	current 16.5	history1 19.6	history2 15.9

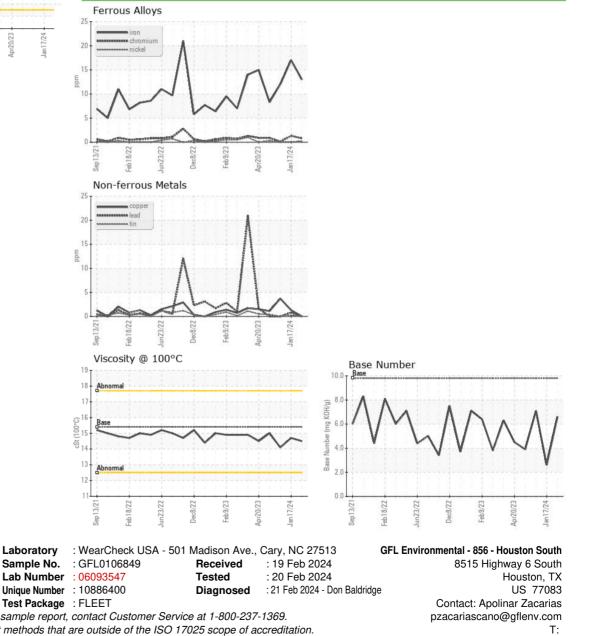


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.5	14.7	14.1
GRAPHS						





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)

Certificate L2367

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