

OIL ANALYSIS REPORT

Sample Rating Trend



(36778HA) 825017-139 Component

Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (--- LTR)

SAMPLE INFOR	IMATION	method				history
Sample Number		Client Info		GFL0108292	GFL0108276	GFL010830
Sample Date		Client Info		12 Feb 2024	05 Feb 2024	20 Jan 202
Machine Age	hrs	Client Info		22612	22612	22612
Oil Age	hrs	Client Info		0	16310	16545
Oil Changed		Client Info		Not Changd	Changed	Not Chango
Sample Status				NORMAL	SEVERE	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history
Iron	ppm	ASTM D5185m	>120	4	7	6
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	3	1	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	9	6
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	<1	0	<1
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history
Boron	ppm	ASTM D5185m	0	20	15	15
Barium	ppm	ASTM D5185m	0	12	0	0
Molybdenum	ppm	ASTM D5185m	60	53	54	57
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	842	821	960
Calcium	ppm	ASTM D5185m	1070	1119	950	1165
Phosphorus	ppm	ASTM D5185m	1150	1045	921	1028
Zinc	ppm	ASTM D5185m	1270	1120	1134	1284
Sulfur	ppm	ASTM D5185m	2060	3678	2750	3186
CONTAMINAN	ITS	method	limit/base	current	history1	history
Silicon	ppm	ASTM D5185m	>25	4	8	5
Sodium	ppm	ASTM D5185m		0	<1	1
Potassium	ppm	ASTM D5185m	>20	2	1	<1
Fuel	%	ASTM D3524	>3.0	0.6	6.2	<1.0
INFRA-RED		method	limit/base	current	history1	history
Soot %	%	*ASTM D7844	>4	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	4.9	6.1	6.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.4	17.7	18.2
		1			In the American Market	la facta a mil
FLUID DEGRA	DATION	method	limit/base	current	history1	nistory
FLUID DEGRA Oxidation	DATION Abs/.1mm	*ASTM D7414	limit/base	current 12.8	13.1	history: 13.8

DIAGNOSIS Recommendation

No corrective action is recommended at this time Resample at the next service interval to monitor

Wear

All component wear rates are normal.

Contamination

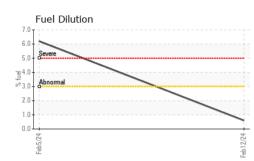
Fuel content negligible. There is no indication of any contamination in the oil.

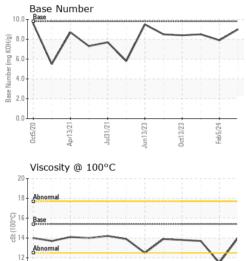
Fluid Condition

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



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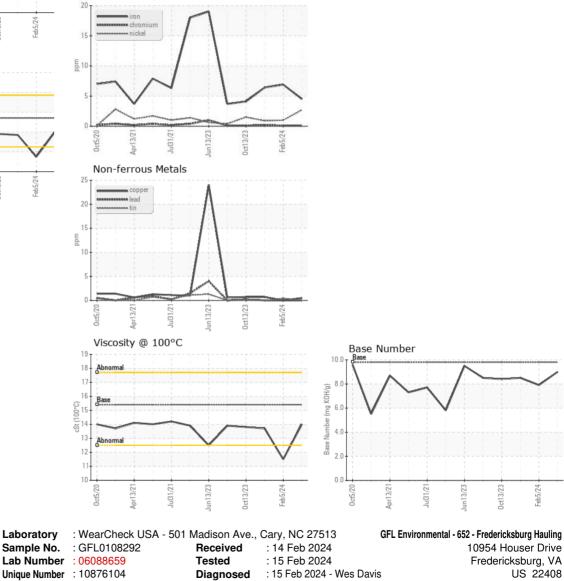
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VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
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	14.0	1 1.5	13.7
GRAPHS						

Ferrous Alloys





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Test Package : FLEET (Additional Tests: PercentFuel) Contact: WILLIAM MILO 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)

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