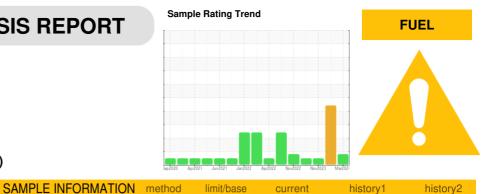


OIL ANALYSIS REPORT



Diesel Engine Elui

PETRO CANADA DURON HP 15W40 (8 GAL)

DIAGNOSIS

Machine Id 10951 Component

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

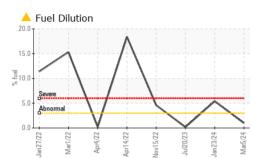
Fluid Condition

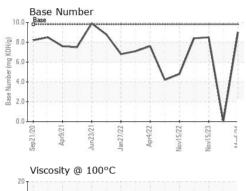
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

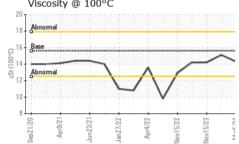
SAMPLE INFOR		method	limit/base	current	history i	history2
Sample Number		Client Info		GFL0090011	GFL0089979	GFL0080604
Sample Date		Client Info		05 Mar 2024	23 Jan 2024	15 Nov 2023
Machine Age	hrs	Client Info		42782	42782	42782
Oil Age	hrs	Client Info		0	42782	42782
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				MARGINAL	SEVERE	NORMAL
-			11 11 11			
CONTAMINAT	ION	method	limit/base	current	history1	history2
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	>90	3	54	6
Chromium	ppm	ASTM D5185m	>20	0	2	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	2
Lead	ppm	ASTM D5185m	>40	0	2	0
Copper	ppm	ASTM D5185m	>330	0	2	3
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		4	2	26
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		56	55	51
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		885	822	662
Calcium	ppm	ASTM D5185m		1041	965	1449
Phosphorus	ppm	ASTM D5185m		1003	886	873
Zinc	ppm	ASTM D5185m		1154	1049	1003
Sulfur	ppm	ASTM D5185m		2802	2135	2591
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	6
Sodium	ppm	ASTM D5185m		2	6	6
Potassium	ppm	ASTM D5185m	>20	0	35	21
Fuel	%	ASTM D3524	>3.0	<u> </u>	5 .4	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.2	▲ 8.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	5.9	33.7	6.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.6	44.8	19.1
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0	53.2	15.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.0	▲ 0.0	8.5
	0.0					



OIL ANALYSIS REPORT







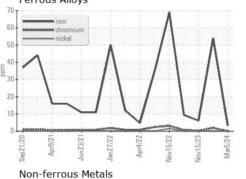
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.6	14.3	1 5.1	14.2
GRAPHS						

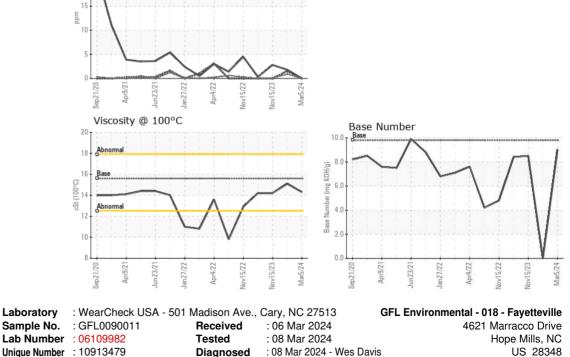
Ferrous Alloys

lead

2

20





Unique Number : 10913479 Test Package : FLEET (Additional Tests: PercentFuel) 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)

US 28348 Contact: Robert Carter robert.carter@gflenv.com T: (910)596-1170 F:

Submitted By: CHRIS HALL

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