

OIL ANALYSIS REPORT

Sample Rating Trend





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.

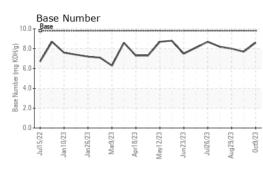
Fluid Condition

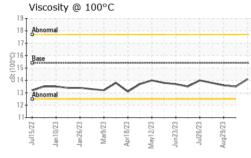
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		lul2022 Jan202	3 Jan2023 Mar2023 Apr2	023 May2023 Jun2023 Jul2023 Au	g2023 Oct202	
SAMPLE INFORM	AHON		limit/base		history1	history2
Sample Number		Client Info		GFL0091022	GFL0090979	GFL0090939
Sample Date		Client Info		09 Oct 2023	22 Sep 2023	29 Aug 2023
	nrs	Client Info		5270	5157	4980
0	nrs	Client Info		113	177	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIC)N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
lron p	opm	ASTM D5185m	>100	3	5	5
	opm	ASTM D5185m	>20	<1	0	<1
Nickel p	opm	ASTM D5185m	>4	<1	0	0
Titanium p	opm	ASTM D5185m		<1	0	0
Silver p	opm	ASTM D5185m	>3	0	0	0
Aluminum p	opm	ASTM D5185m	>20	2	2	1
Lead p	opm	ASTM D5185m	>40	0	0	0
Copper p	opm	ASTM D5185m	>330	<1	0	0
Tin p	opm	ASTM D5185m	>15	<1	<1	0
Vanadium p	opm	ASTM D5185m		0	0	0
Cadmium p	opm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron p	opm	ASTM D5185m	0	<1	3	4
Barium p	opm	ASTM D5185m	0	10	<1	0
Molybdenum p	opm	ASTM D5185m	60	58	68	65
Manganese p	opm	ASTM D5185m	0	0	<1	<1
	opm	ASTM D5185m	1010	868	936	985
Calcium p	opm	ASTM D5185m	1070	962	1018	1106
Phosphorus p	opm	ASTM D5185m	1150	999	1024	1050
Zinc	opm	ASTM D5185m	1270	1155	1234	1324
Sulfur p	opm	ASTM D5185m	2060	3120	2899	3603
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon p	opm	ASTM D5185m	>25	1	2	2
Sodium p	opm	ASTM D5185m		0	<1	1
Potassium p	opm	ASTM D5185m	>20	2	3	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.4	0.3
Nitration A	Abs/cm	*ASTM D7624	>20	5.2	7.4	6.5
Sulfation A	Abs/.1mm	*ASTM D7415	>30	17.6	18.7	18.4
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation A	Abs/.1mm	*ASTM D7414	>25	13.4	14.6	13.9
Base Number (BN)	na KOH/a	ASTM D2896	9.8	8.6	7.7	8.0

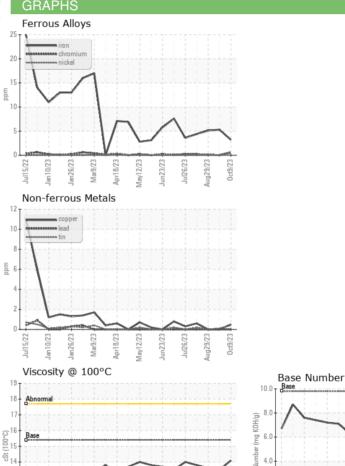


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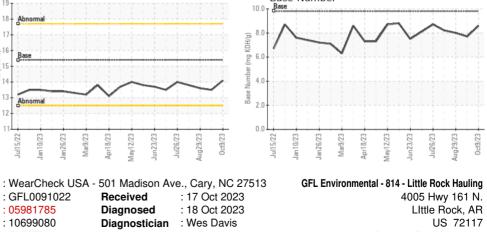
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	14.1	13.5	13.6
GRAPHS						

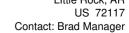


Jun23/23

Aug29/23

Jul26/23





To discuss this sample report, contact Customer Service at 1-800-237-1369.

Jan 10/23

: GFL0091022

: 05981785

Jan 26/23 Mar9/73

ppm

bpm

13 Abnorma 12 11-

Laboratory

Sample No.

Lab Number

Unique Number : 10699080

Test Package : FLEET

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Apr18/23 May12/23

Received

Diagnosed

Certificate L2367

Submitted By: Nicole Walls Page 2 of 2

^{* -} Denotes test methods that are outside of the ISO 17025 scope of accreditation.