

OIL ANALYSIS REPORT

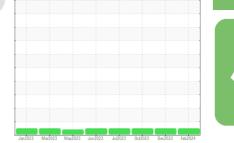
Sample Rating Trend

NORMAL

(BD23984) 913001

Component **Diesel Engine** Fluid

PETRO CANADA DURON SHP 15W40 (9 GAL)





DIAGNOSIS			method	limit/base		hiotory	- biotor 20
	SAMPLE INFOR			- inni/base		history1	history2
Recommendation	Sample Number		Client Info		GFL0115052	GFL0106645	GFL0087276
Resample at the next service interval to monitor.	Sample Date		Client Info		27 Feb 2024	19 Dec 2023	08 Oct 2023
Vear	Machine Age	hrs	Client Info		4312	3710	3117
Il component wear rates are normal.	Oil Age	hrs	Client Info		602	593	555
contamination	Oil Changed		Client Info		Changed	Changed	Changed
here is no indication of any contamination in the il.	Sample Status				NORMAL	NORMAL	NORMAL
uid Condition	CONTAMINAT	ION	method	limit/base	current	history1	history2
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
	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		6	22	22
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	<1	0	<1
	Titanium	ppm	ASTM D5185m	>2	0	0	<1
	Silver	ppm	ASTM D5185m	>2	<1	0	0
	Aluminum	ppm	ASTM D5185m	>20	2	2	3
	Lead	ppm	ASTM D5185m	>40	0	0	<1
	Copper	ppm	ASTM D5185m	>330	2	5	5
	Tin	ppm	ASTM D5185m	>15	<1	<1	1
	Vanadium	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	5	9	3
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	56	47	59
	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	898	775	909
	Calcium	ppm	ASTM D5185m	1070	1040	1141	1110
	Phosphorus	ppm	ASTM D5185m	1150	1114	844	980
	Zinc	ppm	ASTM D5185m	1270	1294	1133	1236
	Sulfur	ppm	ASTM D5185m	2060	3232	2494	3044
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	3	9	10
	Sodium	ppm	ASTM D5185m		1	5	3
	Potassium	ppm	ASTM D5185m	>20	0	0	2
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.4	0.8	0.6
	Nitration	Abs/cm	*ASTM D7624		7.6	10.2	8.4
	Sulfation	Abs/.1mm	*ASTM D7415		19.5	22.7	20.0
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	19.0	16.2
	Deep Number (DN)	ma 1/011/-			7 5	EO	7 1

Base Number (BN) mg KOH/g ASTM D2896 9.8

7.1

5.8

7.5



cSt (100°C) Ba

Ab 12

Jan 19/23

Mar1/73

Aau1/23

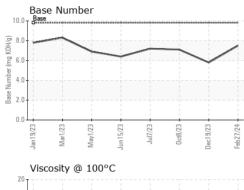
Jun15/23

OIL ANALYSIS REPORT

scalar

VISUAL

White Metal





*Visual

NONE

NONE

NONE

NONE

NONE

NONE

NONE

NONE

NONE

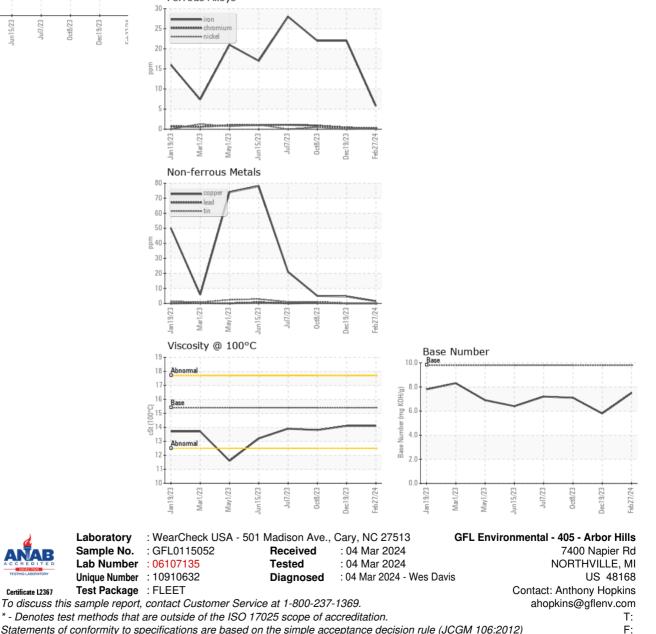
NORML

NORML

NEG

NEG

13.8



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