

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 812062

Fluid

Component **Diesel Engine**

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

DIAGNOSIS	SAMPLE INFORM	ΛΑΤΙΟΝ	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0092878	GFL0092846	GFL0085636
Resample at the next service interval to monitor.	Sample Date		Client Info		09 Jan 2024	13 Nov 2023	21 Aug 2023
Wear	Machine Age	hrs	Client Info		3452	3065	2490
All component wear rates are normal.	Oil Age	hrs	Client Info		387	575	580
Contamination	Oil Changed		Client Info		Changed	Changed	Changed
There is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
oil.	CONTAMINATI	ON	method	limit/base	current	history1	history2
Fluid Condition	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the	Water		WC Method	>0.2	NEG	NEG	NEG
oil is suitable for further service.	Glycol		WC Method		NEG	NEG	NEG
	WEAR METALS	S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	9	15	15
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	<1	1	1
	Titanium	ppm	ASTM D5185m	>2	0	<1	0
	Silver	ppm	ASTM D5185m	>2	0	0	<1
	Aluminum	ppm	ASTM D5185m	>20	<1	1	1
	Lead	ppm	ASTM D5185m	>40	0	1	<1
	Copper	ppm	ASTM D5185m	>330	2	7	37
	Tin	ppm	ASTM D5185m	>15	<1	1	1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m		2	5	3
	Barium	ppm	ASTM D5185m	0	0	0	2
	Molybdenum	ppm	ASTM D5185m		61	58	62
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		978	985	926
	Calcium	ppm	ASTM D5185m		1115	1096	1146
	Phosphorus	ppm	ASTM D5185m	1150	1034	948	966
	Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m	1270 2060	1250 2968	1241 2542	1205 2596
	CONTAMINAN		method	limit/base		history1	history2
	Silicon	ppm	ASTM D5185m	>25	3	3	4
	Sodium	ppm	ASTM D5185m		3	5	6
	Potassium	ppm	ASTM D5185m	>20	1	2	2
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.6	1	0.8
	Nitration	Abs/cm	*ASTM D7624	>20	6.8	8.2	8.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	20.7	20.6
	FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	15.4	16.1

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

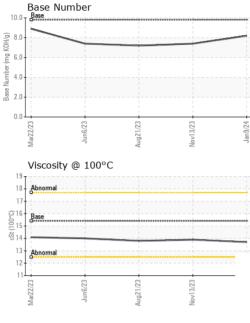
7.4

8.2

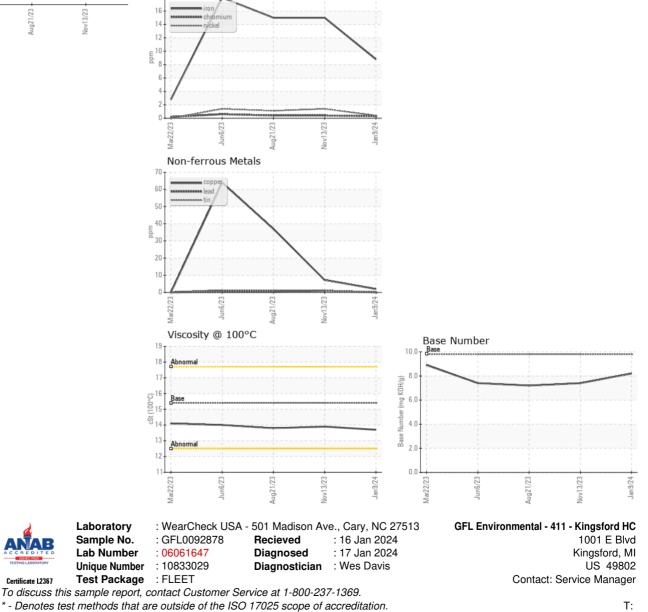
7.2



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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	13.7	13.9	13.8
GRAPHS						
Ferrous Alloys						



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

Submitted By: TECHNICIAN ACCOUNT

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