

## **OIL ANALYSIS REPORT**

Sample Rating Trend





## MONTGOMERY 927047-162510

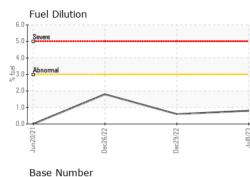
Component **Diesel Engine** Fluid

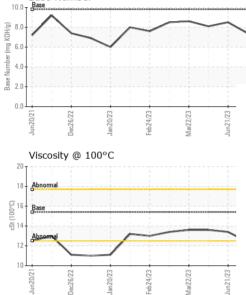
PETRO CANADA DURON SHP 15W40 (--- LTR)

DIAGNOSIS	SAMPLE INFOR	ΜΑΤΙΟΝ	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0045434	GFL0045427	GFL0064608
No corrective action is recommended at this time.	Sample Date		Client Info		08 Jul 2023	21 Jun 2023	11 May 2023
Resample at the next service interval to monitor.	Machine Age	hrs	Client Info		16791	16639	16361
Wear	Oil Age	hrs	Client Info		16791	16639	16361
All component wear rates are normal.	Oil Changed		Client Info		Not Changd	N/A	Not Changd
Contamination	Sample Status				NORMAL	NORMAL	MARGINAL
Fuel content negligible. There is no indication of any contamination in the oil.	CONTAMINAT	ION	method	limit/base	current	history1	history2
Fluid Condition	Glycol		WC Method		NEG	NEG	NEG
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	WEAR METAL	.S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	8	9	32
	Chromium	ppm	ASTM D5185m	>20	<1	<1	0
	Nickel	ppm	ASTM D5185m	>5	<1	<1	0
	Titanium	ppm	ASTM D5185m	>2	0	<1	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	3	6	<b>▲</b> 70
	Lead	ppm	ASTM D5185m	>40	0	<1	0
	Copper	ppm	ASTM D5185m	>330	<1	1	3
	Tin	ppm	ASTM D5185m	>15	0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	<1	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	12	12	10
	Barium	ppm	ASTM D5185m	0	2	<1	0
	Molybdenum	ppm	ASTM D5185m	60	61	59	59
	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	713	920	903
	Calcium	ppm	ASTM D5185m	1070	1088	1071	1097
	Phosphorus	ppm	ASTM D5185m	1150	883	974	940
	Zinc	ppm	ASTM D5185m	1270	1108	1215	1198
	Sulfur	ppm	ASTM D5185m	2060	2984	3472	3057
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	3	11	24
	Sodium	ppm	ASTM D5185m		4	4	4
	Potassium	ppm	ASTM D5185m	>20	4	3	<1
	Fuel	%	ASTM D3524	>3.0	0.8	<1.0	<1.0
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.8	0.5	0.9
	Nitration	Abs/cm	*ASTM D7624	>20	7.7	6.7	8.0
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	19.4	20.8
	FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	12.9	14.5	16.0
	Base Number (BN)				7.4	8.5	8.1

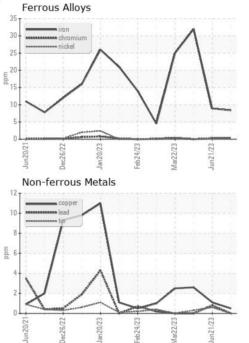


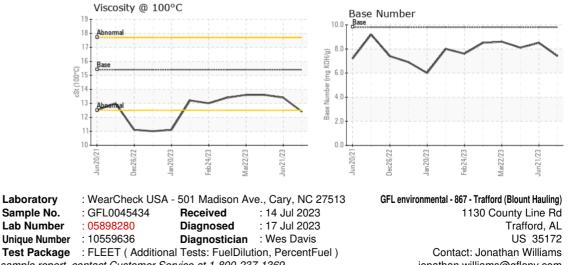
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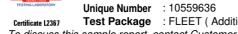




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	12.4	13.4	13.6
GRAPHS						







Laboratory

Sample No.

Lab Number

19

18 17

16 cSt (100°C)

12

10

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.

Dec26/22

: GFL0045434

: 05898280

Jan20/23

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