

## **OIL ANALYSIS REPORT**

Sample Rating Trend





## Area **MONTGOMERY MACK 420055**

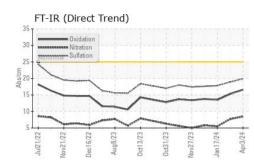
Diesel Engine

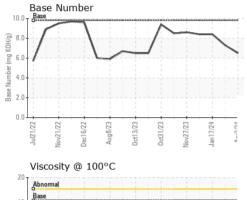
Fluid PETRO CANADA DURON SHP 15W40 (--- LTR)

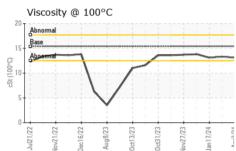
DIAGNOSIS	SAMPLE INFOR		method	limit/base	current	history1	history2
ecommendation	Sample Number		Client Info		GFL0083548	GFL0088646	GFL0081878
esample at the next service interval to monitor.	Sample Date		Client Info		03 Apr 2024	27 Feb 2024	17 Jan 2024
ear	Machine Age	hrs	Client Info		10771	10514	10125
component wear rates are normal.	Oil Age	hrs	Client Info		993	736	347
ontamination	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
There is no indication of any contamination in the bil.	Sample Status				NORMAL	NORMAL	NORMAL
	CONTAMINAT	ION	method	limit/base	current	history1	history2
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.	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	>120	11	5	3
	Chromium	ppm	ASTM D5185m	>20	0	<1	0
	Nickel	ppm	ASTM D5185m	>5	<1	<1	0
	Titanium	ppm	ASTM D5185m	>2	<1	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	2	2	<1
	Lead	ppm	ASTM D5185m	>40	0	<1	0
	Copper	ppm	ASTM D5185m	>330	2	2	1
	Tin	ppm	ASTM D5185m	>15	0	<1	0
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	2	4	5
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	64	58	61
	Manganese	ppm	ASTM D5185m	0	0	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	1024	887	985
	Calcium	ppm	ASTM D5185m	1070	1147	975	1036
	Phosphorus	ppm	ASTM D5185m	1150	1049	953	1049
	Zinc	ppm	ASTM D5185m	1270	1322	1193	1259
	Sulfur	ppm	ASTM D5185m	2060	3410	2687	3178
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	5	5	4
	Sodium	ppm	ASTM D5185m		4	2	1
	Potassium	ppm	ASTM D5185m	>20	2	2	0
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.3	0.2	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	8.5	7.7	5.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	18.9	17.8
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	15.3	13.5



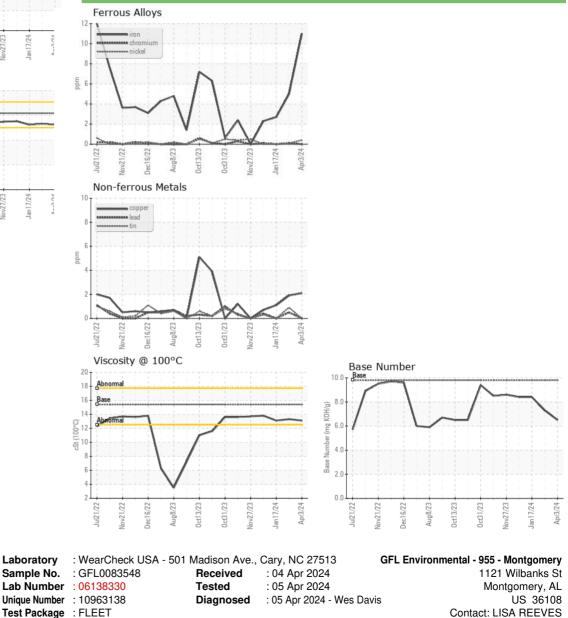
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	13.1	13.3	13.1
GRAPHS						





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)

Report Id: GFL955 [WUSCAR] 06138330 (Generated: 04/05/2024 04:29:40) Rev: 1

Certificate 12367

Laboratory

Sample No.

Submitted By: Lisa Reeves Page 2 of 2

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