

## **OIL ANALYSIS REPORT**

Sample Rating Trend





Machine Id 728053-17 Component

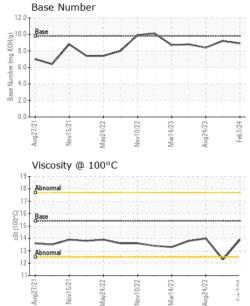
**Diesel Engine** Fluid

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

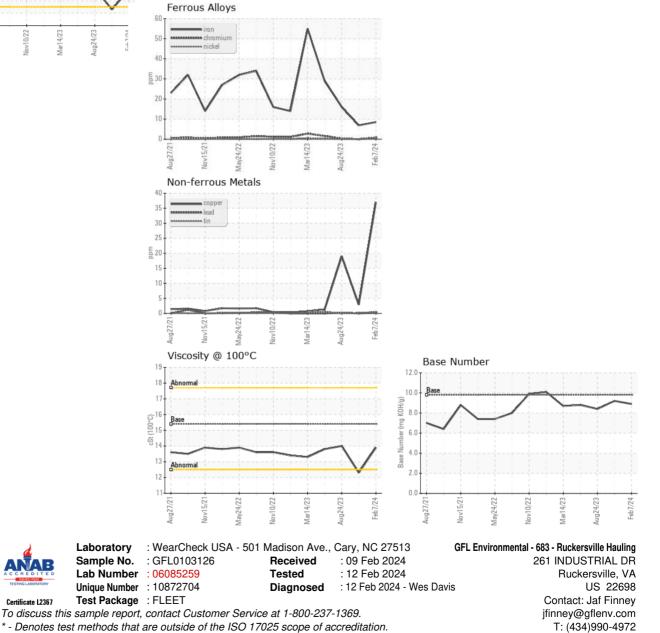
IAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	e current	history1	history2
commendation	Sample Number		Client Info		GFL0103126	GFL0091952	GFL0091958
ample at the next service interval to monitor.	Sample Date		Client Info		07 Feb 2024	07 Nov 2023	24 Aug 2023
ar	Machine Age	hrs	Client Info		11683	11503	11270
component wear rates are normal.	Oil Age	hrs	Client Info		180	600	315
ntamination	Oil Changed		Client Info		N/A	Changed	N/A
re is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
	CONTAMINAT	ION	method	limit/base	e current	history1	history2
Fluid Condition The BN result indicates that there is suitable ukalinity remaining in the oil. The condition of the il is suitable for further service.	Fuel		WC Method	>3.0	<1.0	0.9	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	WEAR METAL	.S	method	limit/base	e current	history1	history2
	Iron	ppm	ASTM D5185m	>90	8	7	16
	Chromium	ppm	ASTM D5185m	>20	<1	0	<1
	Nickel	ppm	ASTM D5185m	>2	<1	0	0
	Titanium	ppm	ASTM D5185m	>2	<1	<1	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>20	1	5	4
	Lead	ppm	ASTM D5185m		<1	0	<1
	Copper	ppm	ASTM D5185m		37	3	19
	Tin	ppm	ASTM D5185m		<1	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		<1	0	0
	ADDITIVES		method	limit/base	e current	history1	history2
	Boron	ppm	ASTM D5185m	0	6	3	<1
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m		64	59	59
	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m		1007	942	1039
	Calcium	ppm	ASTM D5185m	1070	1110	1059	1153
	Phosphorus	ppm	ASTM D5185m		1053	1038	1058
	Zinc	ppm	ASTM D5185m	1270	1294	1280	1348
	Sulfur	ppm	ASTM D5185m		3162	3070	3825
	CONTAMINAN	ITS	method	limit/base	e current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	7	5	9
	Sodium	ppm	ASTM D5185m		0	3	5
	Potassium	ppm	ASTM D5185m	>20	2	11	3
	INFRA-RED		method	limit/base	e current	history1	history2
	Soot %	%	*ASTM D7844	>6	0.2	0.1	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	6.5	5.2	8.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	17.8	19.0
	FLUID DEGRA	DATION	method				history2
	FLUID DEGRA Oxidation		method *ASTM D7414		e current	history1 13.6	history2 15.0



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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	13.9	12.3	14.0
GRAPHS						



Certificate L2367