

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id 811001

Fluid

Component **Diesel Engine**

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



DIAGNOSIS	SAMPLE INFOR		method	limit/base	e current	history1	history2
Recommendation	Sample Number		Client Info		GFL0113586	GFL0103912	GFL0097373
Resample at the next service interval to monitor.	Sample Date		Client Info		29 Feb 2024	02 Feb 2024	09 Nov 2023
Vear	Machine Age	hrs	Client Info		8399	8310	59591
Il component wear rates are normal.	Oil Age	hrs	Client Info		563	474	49630
	Oil Changed	1110	Client Info		Changed	N/A	N/A
contamination here is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
il.	CONTAMINA	ΓΙΟΝ	method	limit/base	e current	history1	history2
luid Condition	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
he BN result indicates that there is suitable Ikalinity remaining in the oil. The condition of the	Water		WC Method		NEG	NEG	NEG
il is suitable for further service.	Glycol		WC Method		NEG	NEG	NEG
	WEAR METAL	_S	method	limit/base	e current	history1	history2
	Iron	ppm	ASTM D5185m	>120	25	10	17
	Chromium	ppm	ASTM D5185m		1	<1	<1
	Nickel	ppm	ASTM D5185m		2	2	<1
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		0	<1	0
	Aluminum	ppm	ASTM D5185m		2	3	1
	Lead	ppm	ASTM D5185m		<1	1	0
	Copper	ppm	ASTM D5185m		3	3	<1
	Tin	ppm	ASTM D5185m		1	1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	e current	history1	history2
	Boron	ppm	ASTM D5185m	0	2	3	6
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	61	58	55
	Manganese	ppm	ASTM D5185m	0	<1	1	<1
	Magnesium	ppm	ASTM D5185m	1010	927	882	932
	Calcium	ppm	ASTM D5185m	1070	1057	1039	1035
	Phosphorus	ppm	ASTM D5185m	1150	1019	966	974
	Zinc	ppm	ASTM D5185m	1270	1232	1219	1231
	Sulfur	ppm	ASTM D5185m	2060	2959	2838	2636
	CONTAMINAN	NTS	method	limit/base	e current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	6	5	5
	Sodium	ppm	ASTM D5185m		6	5	4
	Potassium	ppm	ASTM D5185m	>20	4	7	<1
	INFRA-RED		method	limit/base	e current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.8	0.6	0.8
	A 111 11	Abs/cm	*ASTM D7624	>20	9.2	8.3	8.9
	Nitration				00 5		
	Nitration	Abs/.1mm	*ASTM D7415	>30	20.5	19.8	20.6
		Abs/.1mm		>30 limit/base		19.8 history1	20.6 history2
	Sulfation	Abs/.1mm		limit/base			



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Jan20/22

Apr11/22

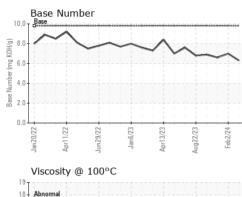
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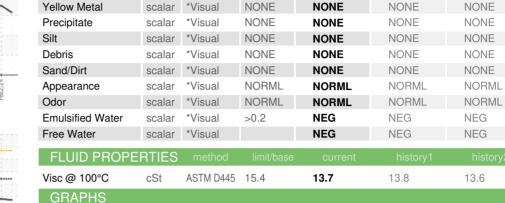
OIL ANALYSIS REPORT

scalar

VISUAL

White Metal





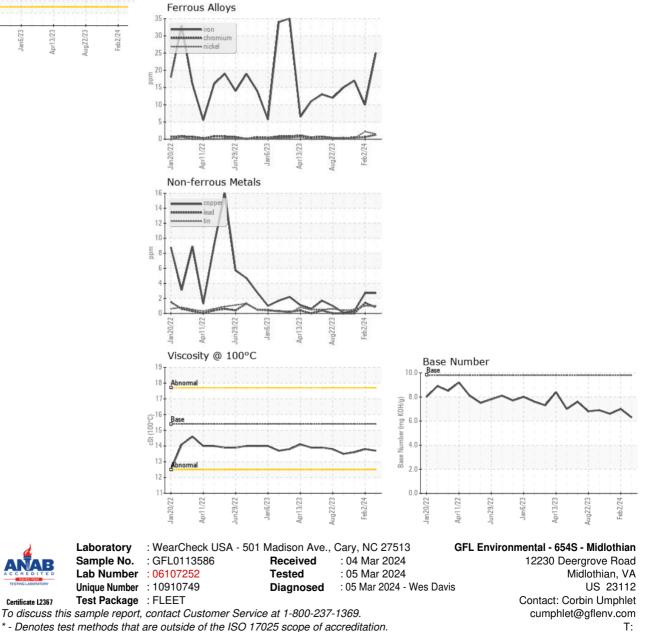
NONE

*Visual

NONE

NONE

NONE





* - 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)

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