

OIL ANALYSIS REPORT

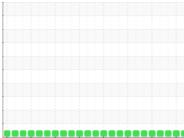
Sample Rating Trend





Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (38 LTR)





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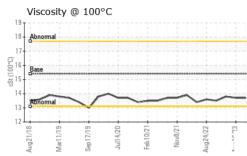
AGNOSIS	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
mmendation	Sample Number		Client Info		GFL0097563	GFL0088939	GFL0080274
mple at the next service interval to monitor.	Sample Date		Client Info		03 Nov 2023	16 Aug 2023	29 May 2023
	Machine Age	hrs	Client Info		18767	18155	384605
mponent wear rates are normal.	Oil Age	hrs	Client Info		612	582	0
amination	Oil Changed		Client Info		Changed	Changed	Changed
e is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
	CONTAMINA	TION	method	limit/base	current	history1	history2
Condition	Fuel		WC Method		<1.0	<1.0	<1.0
The condition of the oil is acceptable for the time in service.	Glycol		WC Method		NEG	NEG	NEG
	WEAR META	LS	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185(m)	>120	6	7	7
	Chromium	ppm	ASTM D5185(m)	>20	0	0	<1
	Nickel	ppm	ASTM D5185(m)	>5	0	0	0
	Titanium	ppm	ASTM D5185(m)	>2	0	0	0
	Silver	ppm	ASTM D5185(m)	>2	<1	<1	<1
	Aluminum	ppm	ASTM D5185(m)	>20	1	1	1
	Lead	ppm	ASTM D5185(m)	>40	<1	1	<1
	Copper	ppm	ASTM D5185(m)	>330	2	2	2
	Tin	ppm	ASTM D5185(m)	>15	0	<1	0
	Antimony	ppm	ASTM D5185(m)		0	0	<1
	Vanadium	ppm	ASTM D5185(m)		0	0	0
	Beryllium	ppm	ASTM D5185(m)		0	0	0
	Cadmium	ppm	ASTM D5185(m)		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185(m)	0	5	5	2
	Barium	ppm	ASTM D5185(m)	0	<1	0	0
	Molybdenum	ppm	ASTM D5185(m)	60	61	60	58
	Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
	Magnesium	ppm	ASTM D5185(m)	1010	959	974	969
	Calcium	ppm	ASTM D5185(m)	1070	1058	1035	1001
	Phosphorus	ppm	ASTM D5185(m)	1150	998	1036	1022
	Zinc	ppm	ASTM D5185(m)	1270	1200	1175	1156
	Sulfur	ppm	ASTM D5185(m)	2060	2503	2486	2391
	Lithium	ppm	ASTM D5185(m)		<1	<1	<1
	CONTAMINA	NTS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185(m)	>25	3	2	3
	Sodium	ppm	ASTM D5185(m)		3	3	3
	Potassium	ppm	ASTM D5185(m)	>20	<1	1	<1
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	ASTM D7844*	>4	0.1	0.2	0.1
	Nitration	Abs/cm	ASTM D7624*	>20	7.8	8.0	8.1
	Sulfation	Abs/.1mm	ASTM D7415*	>30	19.6	20.5	19.8
	FLUID DEGRA		method	limit/base	current	history1	history2
	Oxidation	Abo/ dama	ASTM D7414*	>25	15.8	15.7	16.2

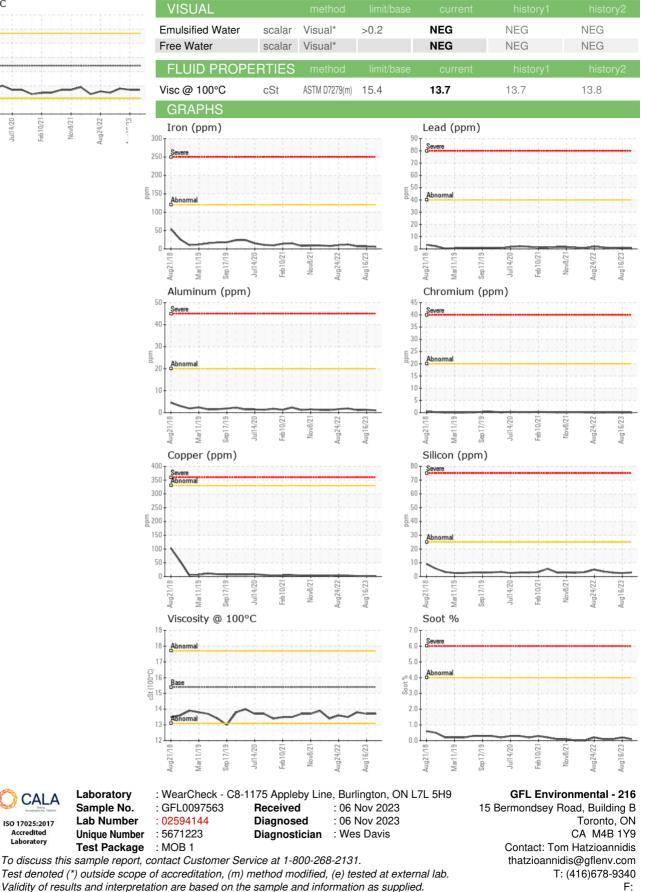
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Submitted By: Tom Hatzioannidis



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CALA

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Laboratory

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