

OIL ANALYSIS REPORT

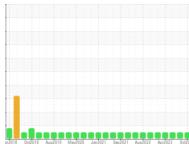
Sample Rating Trend





Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (40 LTR)





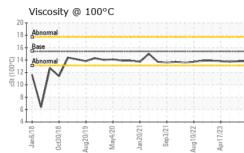
IAGNOSIS	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
commendation	Sample Number		Client Info		GFL0097554	GFL0088956	GFL007430
sample at the next service interval to monitor.	Sample Date		Client Info		10 Oct 2023	01 Sep 2023	22 Jun 2023
ar	Machine Age	hrs	Client Info		15771	15487	114921
component wear rates are normal.	Oil Age	hrs	Client Info		284	566	577
ntamination	Oil Changed		Client Info		Changed	Changed	Changed
ere is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
,	CONTAMINA	TION	method	limit/base	current	history1	history2
id Condition	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
e condition of the oil is acceptable for the time in	Glycol		WC Method	20.0	NEG	NEG	NEG
service.	WEAR META			limit/base		history1	history2
				limit/base			
	Iron	ppm	ASTM D5185(m)		11	13	13
	Chromium	ppm	ASTM D5185(m)		0	0	0
	Nickel	ppm	ASTM D5185(m)		0	0	0
	Titanium	ppm	ASTM D5185(m)		0	0	0
	Silver	ppm	ASTM D5185(m)		<1	0	0
	Aluminum	ppm	ASTM D5185(m)		1	2	2
	Lead	ppm	ASTM D5185(m)		<1	1	<1
	Copper	ppm	ASTM D5185(m)		3	4	4
	Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
	Antimony	ppm	ASTM D5185(m)		0	0	0
	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	7	4	4
	Barium	ppm	ASTM D5185(m)	0	<1	0	0
	Molybdenum	ppm	ASTM D5185(m)	60	60	59	59
	Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
	Magnesium	ppm	ASTM D5185(m)	1010	971	967	977
	Calcium	ppm	ASTM D5185(m)	1070	1078	1050	1015
	Phosphorus	ppm	ASTM D5185(m)	1150	996	1024	1045
	Zinc	ppm	ASTM D5185(m)	1270	1189	1174	1170
	Sulfur	ppm	ASTM D5185(m)	2060	2565	2422	2472
	Lithium	ppm	ASTM D5185(m)		<1	<1	<1
	CONTAMINA	NTS	method	limit/base	current	history1	history2
				. 05	4	4	3
	Silicon	ppm	ASTM D5185(m)	>23	-	4	
	Silicon Sodium	ppm ppm	ASTM D5185(m) ASTM D5185(m)	>20	3	3	2
			. ,				
	Sodium	ppm	ASTM D5185(m)		3 <1	3	2 1
	Sodium Potassium	ppm	ASTM D5185(m) ASTM D5185(m)	>20 limit/base	3 <1	3 2	2 1
	Sodium Potassium INFRA-RED	ppm ppm	ASTM D5185(m) ASTM D5185(m) method	>20 limit/base >4	3 <1 current	3 2 history1	2 1 history2
	Sodium Potassium INFRA-RED Soot %	ppm ppm % Abs/cm	ASTM D5185(m) ASTM D5185(m) method ASTM D7844*	>20 limit/base >4 >20	3 <1 current 0	3 2 history1 0.1	2 1 history2 0.1
	Sodium Potassium INFRA-RED Soot % Nitration	% % Abs/cm Abs/.1mm	ASTM D5185(m) ASTM D5185(m) method ASTM D7844* ASTM D7624* ASTM D7415*	>20 limit/base >4 >20	3 <1 current 0 5.7 18.5	3 2 history1 0.1 7.0	2 1 history2 0.1 6.7

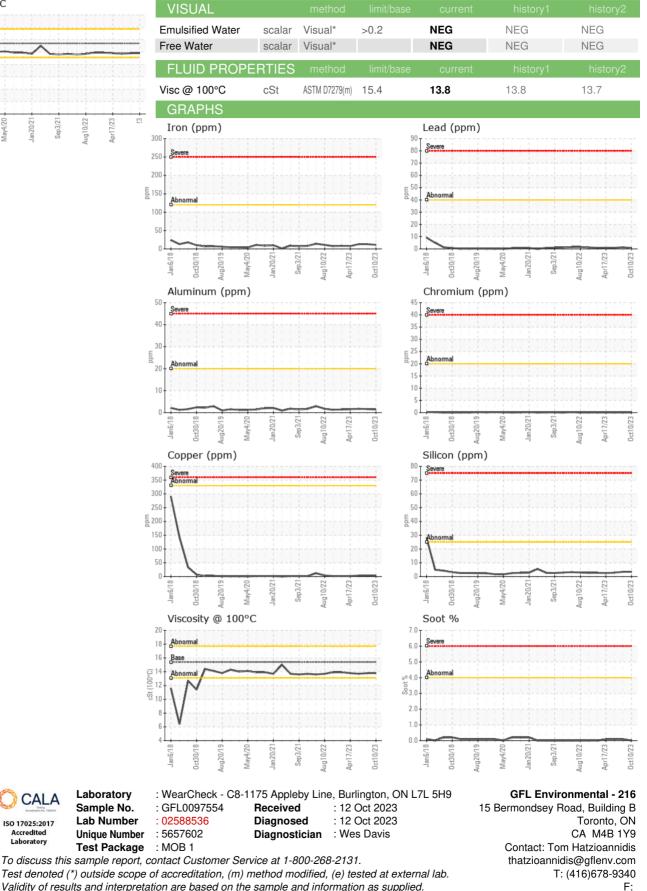
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Validity of results and interpretation are based on the sample and information as supplied.

CALA

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