

OIL ANALYSIS REPORT

Sample Rating Trend





ORIN CONTRACTORS

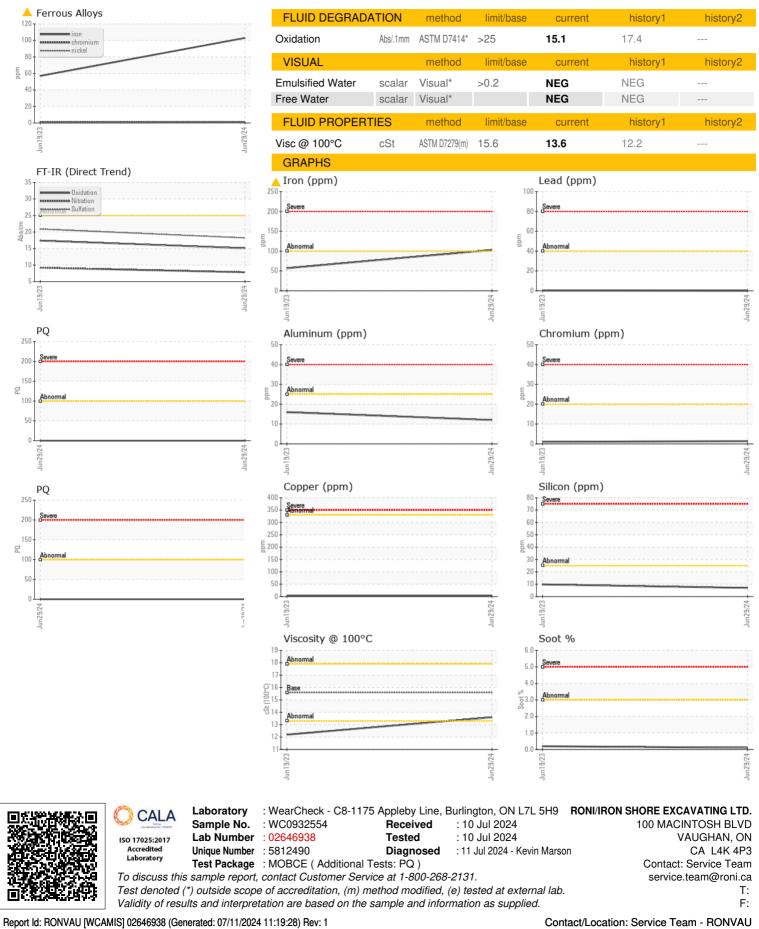
Diesel Engine

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

DIAGNOSIS	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Recommendation The oil change at the time of sampling has been	Sample Number		Client Info		WC0932554	LH0256891	
	Sample Date		Client Info		29 Jun 2024	19 Jun 2023	
noted. We recommend an early resample to	Machine Age	hrs	Client Info		0	6188	
monitor this condition.	Oil Age	hrs	Client Info		0	0	
Wear	Oil Changed		Client Info		Changed	Changed	
on ppm levels are abnormal. Cylinder, crank, or am shaft wear is indicated.	Sample Status				ABNORMAL	NORMAL	
Contamination There is no indication of any contamination in the oil.	CONTAMINATIO	N	method	limit/base	current	history1	history2
	Fuel		WC Method	>5	<1.0	0.7	
	Water		WC Method	>0.2	NEG	NEG	
uid Condition	Glycol		WC Method		NEG	NEG	
ne oil is no longer serviceable as a result of the onormal and/or severe wear.	WEAR METALS		method	limit/base	current	history1	history2
	PQ		ASTM D8184*		0		
	Iron	ppm	ASTM D5185(m)	>100	<u> </u>	57	
	Chromium	ppm	ASTM D5185(m)		1	1	
	Nickel	ppm	ASTM D5185(m)		<1	0	
	Titanium	ppm	ASTM D5185(m)		0	<1	
	Silver	ppm	ASTM D5185(m)		0	0	
	Aluminum	ppm	ASTM D5185(m)		12	16	
	Lead	ppm	ASTM D5185(m)		0	<1	
	Copper	ppm	ASTM D5185(m)		2	3	
	Tin	ppm	ASTM D5185(m)		0	0	
	Antimony	ppm	ASTM D5185(m)	210	0	0	
	Vanadium	ppm	ASTM D5185(m)		0	0	
	Beryllium	ppm	ASTM D5185(m)		0	0	
	Cadmium	ppm	ASTM D5185(m)		0	0	
	ADDITIVES	ppm	× 7	limit/base			
						history1	history2
	Boron	ppm	ASTM D5185(m)		12	70	
	Barium	ppm	ASTM D5185(m)		0	0	
	Molybdenum	ppm	ASTM D5185(m)		59	41	
	Manganese	ppm	ASTM D5185(m)		<1	<1	
	Magnesium	ppm	ASTM D5185(m)		906	268	
	Calcium	ppm	ASTM D5185(m)		1199	1926	
	Phosphorus	ppm	ASTM D5185(m)		1031	1096	
	Zinc		ASTM D5185(m)		1222	1202	
	Sulfur	ppm	ASTM D5185(m)	2060	2639	2821	
	Lithium	ppm	ASTM D5185(m)		<1	<1	
	CONTAMINANTS	5	method	limit/base		history1	history2
	Silicon	ppm	ASTM D5185(m)	>25	7	10	
	Sodium	ppm	ASTM D5185(m)		4	2	
	Potassium	ppm	ASTM D5185(m)	>20	1	3	
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	ASTM D7844*	>3	0.1	0.2	
	Nitration	Abs/cm	ASTM D7624*	>20	7.8	9.2	
	Sulfation	Abs/.1mm	ASTM D7415*	>30	18.2	20.9	



OIL ANALYSIS REPORT



Contact/Location: Service Team - RONVAU Page 2 of 2