

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id OR348 Component **Diesel Engine**

Fluid

PETRO CANADA DURON SHP 15W40 (23 LTR)

DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
A Recommendation	Sample Number		Client Info		GFL0092211	GFL0087394	GFL0056459
The oil change at the time of sampling has been	Sample Date		Client Info		09 Feb 2024	18 Jul 2023	29 May 2023
noted. We recommend an early resample to	Machine Age	hrs	Client Info		22868	22210	21984
monitor this condition.	Oil Age	hrs	Client Info		22210	226	798
🔺 Wear	Oil Changed		Client Info		Changed	Changed	Changed
Iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated.	Sample Status				ABNORMAL	NORMAL	ABNORMAL
Contamination	CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel content negligible. Light concentration of carbon/soot present in the oil.	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
Fluid Condition The oil is no longer serviceable as a result of the abnormal and/or severe wear.	WEAR METAL	.S	method	limit/base	current	history1	history2
	PQ		ASTM D8184*	>50	3		0
	Iron	ppm	ASTM D5185(m)	>51	<u> </u>	28	1 09
	Chromium	ppm	ASTM D5185(m)	>11	4	<1	2
	Nickel	ppm	ASTM D5185(m)	>5	2	<1	2
	Titanium	ppm	ASTM D5185(m)	-	0	0	<1
	Silver	mag	ASTM D5185(m)	>3	0	0	0
	Aluminum	ppm	ASTM D5185(m)	>31	6	2	7
	Lead	ppm	ASTM D5185(m)	>26	3	<1	4
	Copper	nnm	ASTM D5185(m)	>26	2	1	5
	Tin	ppm	ASTM D5185(m)	>4	- ~1	0	0
	Antimony	nnm	ASTM D5185(m)		0	0	0
	Vanadium	nnm	ASTM D5185(m)		0	0	0
	Bervllium	nnm	ASTM D5185(m)		0	0	0
	Cadmium	ppm	ASTM D5185(m)		0	0	0
		pp	method	limit/base	current	history1	history2
	Boron	nnm	ASTM D5185(m)	0	1	2	2
	Barium	ppm	ASTM D5185(m)	0	-	0	0
	Molybdenum	ppm	ASTM D5185(m)	60	76	62	78
	Manganese	nnm	ASTM D5185(m)	0	-1	<1	<1
	Manganesium	ppm	ASTM D5185(m)	1010	1132	1022	1196
	Calcium	nnm	ASTM D5185(m)	1070	1295	1101	1334
	Phosphorus	nnm	ASTM D5185(m)	1150	1158	1096	1299
	Zinc	nnm	ASTM D5185(m)	1270	1384	1219	1430
	Sulfur	ppm	ASTM D5185(m)	2060	2607	2575	2673
	Lithium	mag	ASTM D5185(m)	2000	<1	<1	<1
	CONTAMINAN	ITS	method	limit/base	current	history1	historv2
	Silicon	mag	ASTM D5185(m)	>22	5	4	6
	Sodium	ppm	ASTM D5185(m)	>31	2	1	2
	Potassium	ppm	ASTM D5185(m)	>20	1	<1	0
	Fuel	%	ASTM D7593*	>2.1	0.4	<1.0	<1.0
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	ASTM D7844*	>3	3.8	1.4	▲ 5
	Nitration	Abs/cm	ASTM D7624*	>20	13.9	7.8	15.4
	Sulfation	Abs/.1mm	ASTM D7415*	>30	31.4	22.5	36.1



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