

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 925008 Component

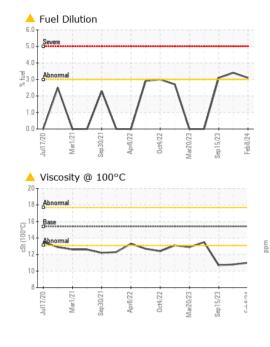
Diesel Engine

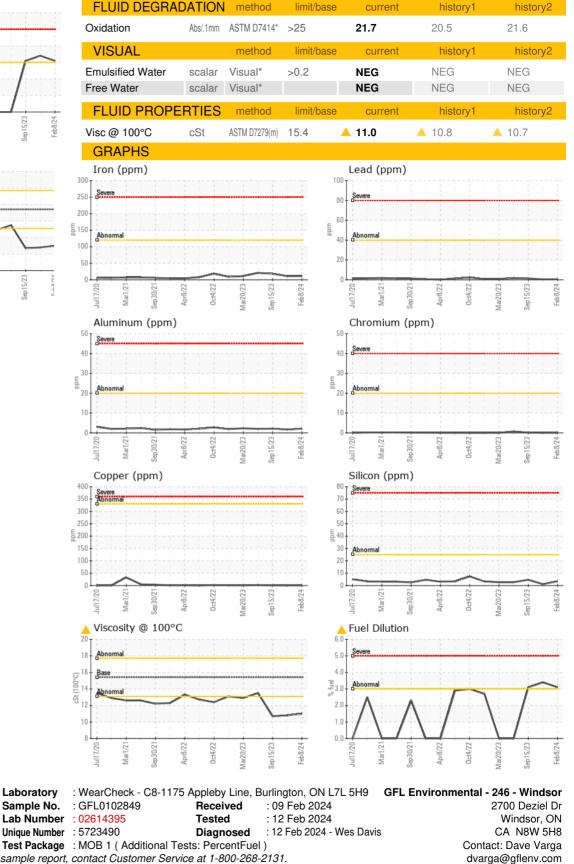
Fluid ----DA DURON SHE 15WAG (~ ~ . . .

PETRO CANADA DUF		GAL)	Jul2020 Ma	r2021 Sep2021 Apr202	22 Oct2022 Mar2023 Sep 20	23 Feb2024	
DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0102849	GFL0097321	GFL0090863
e recommend that you drain the oil from the	Sample Date		Client Info		08 Feb 2024	14 Nov 2023	15 Sep 2023
omponent if this has not already been done. We	Machine Age	kms	Client Info		0	0	0
commend an early resample to monitor this	Oil Age	kms	Client Info		16665	16081	15690
ondition.	Oil Changed		Client Info		N/A	N/A	N/A
lear	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
l component wear rates are normal.	CONTAMINA		method	limit/base	current	history1	history2
Contamination here is a moderate amount of fuel present in the	Water		WC Method		NEG	NEG	NEG
bil. Tests confirm the presence of fuel in the oil.	Glycol		WC Method	>0.2	NEG	NEG	NEG
Fluid Condition	-	-					
e oil is no longer serviceable due to the presence	WEAR META	_S	method	limit/base	current	history1	history2
of contaminants.	Iron	ppm	ASTM D5185(m)	>120	11	11	18
	Chromium	ppm	ASTM D5185(m)	>20	0	0	<1
	Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1
	Titanium	ppm	ASTM D5185(m)	>2	0	0	0
	Silver	ppm	ASTM D5185(m)	>2	0	<1	0
	Aluminum	ppm	ASTM D5185(m)	>20	2	2	2
	Lead	ppm	ASTM D5185(m)		<1	<1	1
	Copper	ppm	ASTM D5185(m)		<1	<1	<1
	Tin	ppm	ASTM D5185(m)		<1	<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
		ppm	. ,	Prod 1 /le o o o			
	ADDITIVES		method	limit/base		history1	history2
	Boron	ppm	ASTM D5185(m)		35	39	25
	Barium	ppm	ASTM D5185(m)	0	0	<1	0
	Molybdenum	ppm	ASTM D5185(m)	60	47	40	38
	Manganese	ppm	ASTM D5185(m)	0	•	0	
		ppm	ASTIVI DSTOS(III)	0	0	0	<1
	Magnesium	ppm	ASTM D5185(m)		0 479	485	<1 481
	Magnesium Calcium		()	1010			
	-	ppm	ASTM D5185(m)	1010 1070	479	485	481
	Calcium	ppm ppm	ASTM D5185(m) ASTM D5185(m)	1010 1070 1150	479 1692	485 1622	481 1602
	Calcium Phosphorus	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1010 1070 1150 1270	479 1692 705	485 1622 694	481 1602 743
	Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1010 1070 1150 1270	479 1692 705 840	485 1622 694 830	481 1602 743 824
	Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1010 1070 1150 1270	479 1692 705 840 2132 <1	485 1622 694 830 1940	481 1602 743 824 1936
	Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1010 1070 1150 1270 2060 limit/base	479 1692 705 840 2132 <1	485 1622 694 830 1940 <1	481 1602 743 824 1936 <1
	Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAI	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method	1010 1070 1150 1270 2060 limit/base	479 1692 705 840 2132 <1 current	485 1622 694 830 1940 <1 history1	481 1602 743 824 1936 <1 history2
	Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAI Silicon	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m)	1010 1070 1150 1270 2060 limit/base >25	479 1692 705 840 2132 <1 current 3	485 1622 694 830 1940 <1 history1 1	481 1602 743 824 1936 <1 history2 5
	Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAI Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1010 1070 1150 1270 2060 limit/base >25 >20	479 1692 705 840 2132 <1 <u>current</u> 3 2	485 1622 694 830 1940 <1 history1 1 2	481 1602 743 824 1936 <1 history2 5 2
	Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAI Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm vTS	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1010 1070 1150 1270 2060 limit/base >25 >20	479 1692 705 840 2132 <1 current 3 2 <1 ▲ 3.1	485 1622 694 830 1940 <1 history1 1 2 0	481 1602 743 824 1936 <1 history2 5 2 2 <1
	Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAI Silicon Sodium Potassium Fuel	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1010 1070 1150 22060 limit/base >25 >20 >20 >3.0 limit/base	479 1692 705 840 2132 <1 current 3 2 <1 ▲ 3.1	485 1622 694 830 1940 <1 history1 1 2 0 0 ▲ 3.4 history1	481 1602 743 824 1936 <1 history2 5 2 <1 <1 ▲ 3.1
	Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAI Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm vTS	ASTM D5185(m) ASTM D7593*	1010 1070 1150 2060 limit/base >25 >20 >3.0 limit/base >4	479 1692 705 840 2132 <1 current 3 2 <1 ▲ 3.1 current	485 1622 694 830 1940 <1 history1 1 2 0 0 ▲ 3.4	481 1602 743 824 1936 <1 history2 5 2 <1 <1



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To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Submitted By: Dave Varga



CALA

ISO 17025:2017 Accredited

Laboratory

Laboratory

Sample No.

F:

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