

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Machine Id 729016-1263

Diesel Engine

PETRO CANADA DURON SHP 15W40 (24 QTS)

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0120928	GFL0110344	GFL0102795
Sample Date		Client Info		29 May 2024	08 Mar 2024	30 Nov 2023
Machine Age	hrs	Client Info		11399	10831	10243
Oil Age	hrs	Client Info		565	849	261
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	<mark>/</mark> 97	A 87	41
Chromium	ppm	ASTM D5185m	>5	3	3	2
Nickel	ppm	ASTM D5185m	>2	2	2	2
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	7	5	3
Lead	ppm	ASTM D5185m	>30	0	0	0
Copper	ppm	ASTM D5185m	>150	3	2	<1
Tin	ppm	ASTM D5185m	>5	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	63	61
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	872	914	914
Calcium	ppm	ASTM D5185m	1070	1125	1084	1054
Phosphorus	ppm	ASTM D5185m	1150	957	995	1052
Zinc	ppm	ASTM D5185m	1270	1168	1237	1284
Sulfur	ppm	ASTM D5185m	2060	2927	2928	3073
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	17	15	9
Sodium	ppm	ASTM D5185m		8	7	3
Potassium	ppm	ASTM D5185m	>20	3	2	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.7	0.3
A Product	Abs/cm	*ASTM D7624	>20	10.8	11.4	7.8
Nitration				01.0	00 5	18.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	22.5	10.0
			>30 limit/base	current	22.5 history1	
Sulfation						history2

DIAGNOSIS

Accommendation No corrective action is recommended at this time.

Resample at the next service interval to monitor. (Customer Sample Comment: Sampled oil)

📥 Wear

Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.

Contamination

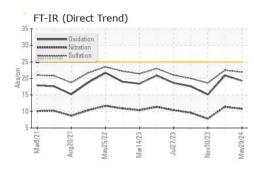
There is no indication of any contamination in the oil.

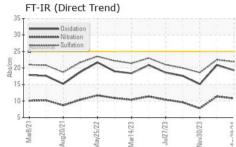
Fluid Condition

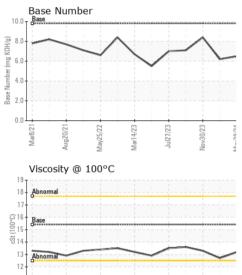
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



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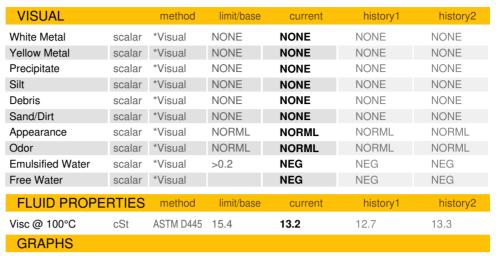


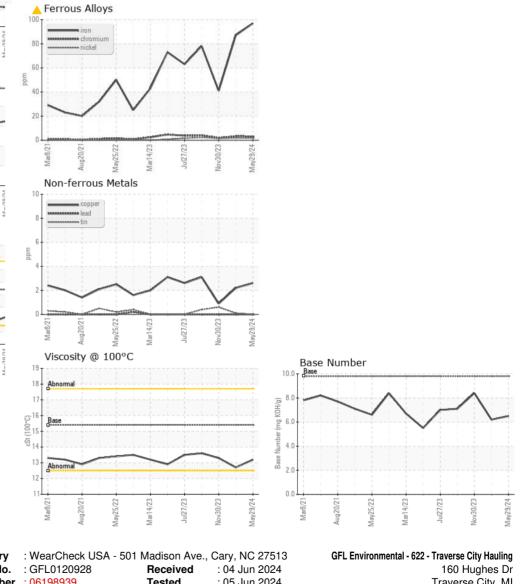
lay25/22

Aar14/23

Mar8/7

ia20/21





Laboratory Sample No. Lab Number : 06198939 Tested : 05 Jun 2024 Traverse City, MI Unique Number : 11061062 Diagnosed : 06 Jun 2024 - Don Baldridge US 49686 Test Package : FLEET Contact: GARY BREWER Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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lov30/23

Submitted By: TECHNICIAN ACCOUNT Page 2 of 2