

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 401207 Component

Fluic

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- LTR)





8.4

20.1

8.9

21.9

9.3

21.9

17.6

DIAGNOSIS	SAMPLE INFORM	/ ATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0090420	GFL0071473	GFL0071497
Resample at the next service interval to monitor.	Sample Date		Client Info		06 Oct 2023	24 Aug 2023	12 Jun 2023
Wear	Machine Age	kms	Client Info		218538	205350	190707
All component wear rates are normal.	Oil Age	kms	Client Info		0	0	0
Contamination	Oil Changed		Client Info		Changed	Changed	Changed
Elevated aluminum (Al) and/or lead (Pb) and	Sample Status				NORMAL	NORMAL	NORMAL
potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant	CONTAMINATI	ON	method	limit/base	current	history1	history2
and is common on new equipment/components.	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
There is no indication of any contamination in the	Glycol		WC Method		NEG	NEG	NEG
	WEAR METALS	3	method	limit/base	current	history1	history2
Fluid Condition		5	method		ounon	motory	inotory2
The condition of the oil is acceptable for the time in	Iron	ppm	ASTM D5185(m)	>120	25	13	10
Seivice.	Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185(m)	>15	<1	<1	<1
	Titanium	ppm	ASTM D5185(m)	>2	0	0	0
	Silver	ppm	ASTM D5185(m)	>3	<1	<1	0
	Aluminum	ppm	ASTM D5185(m)	>20	3	2	2
	Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
	Copper	ppm	ASTM D5185(m)	>330	3	2	4
	Tin	ppm	ASTM D5185(m)	>15	<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
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185(m)	0	2	2	2
	Barium	ppm	ASTM D5185(m)	0	<1	0	0
	Molybdenum	ppm	ASTM D5185(m)	60	62	58	61
	Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
	Magnesium	ppm	ASTM D5185(m)	1010	994	968	974
	Calcium	ppm	ASTM D5185(m)	1070	1078	1039	1125
	Phosphorus	ppm	ASTM D5185(m)	1150	981	1001	1073
	Zinc	ppm	ASTM D5185(m)	1270	1223	1184	1210
	Sulfur	ppm	ASTM D5185(m)	2060	2234	2350	2529
	Lithium	ppm	ASTM D5185(m)		<1	<1	<1
	CONTAMINAN	TS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185(m)	>25	4	3	6
	Sodium	ppm	ASTM D5185(m)		5	4	6
	Potassium	ppm	ASTM D5185(m)	>20	6	4	1
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	ASTM D7844*	>4	0.6	0.4	0.3

Abs/cm ASTM D7624* >20

Abs/.1mm ASTM D7414*

Abs/.1mm

FLUID DEGRADATION method

ASTM D7415*

>30

>25

Nitration

Sulfation

Oxidation

16.6 16.2 Submitted By: Dora Viron



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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.

CALA

ISO 17025:2017 Accredited Laboratory

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