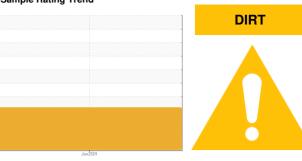


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id **934073** 

Natural Gas Engine

PETRO CANADA DURON SHP 15W40 (--- GA

## DIAGNOSIS

#### Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components.

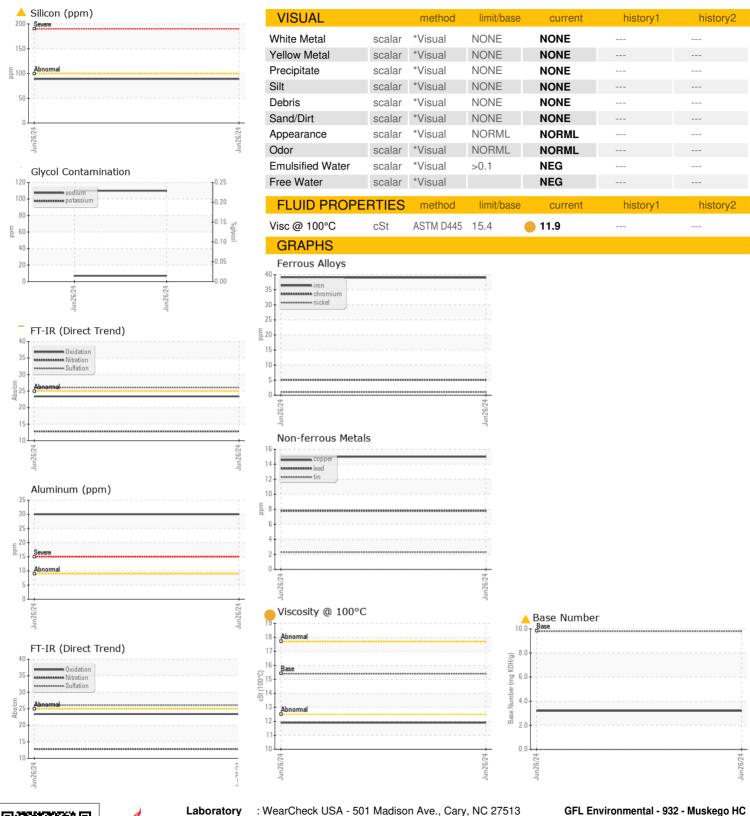
#### Fluid Condition

The oil viscosity is lower than normal. The BN level is low. Confirm oil type.

AL)				Jun2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
	IVIATION		IIIIIIIIIIIII		,	1115(01)/2
Sample Number		Client Info		GFL0118156		
Sample Date		Client Info		26 Jun 2024		
Machine Age	hrs	Client Info		1152		
Oil Age	hrs	Client Info		1152		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Vater		WC Method	>0.1	NEG		
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>50	39		
Chromium	ppm	ASTM D5185m	>4	5		
Nickel	ppm	ASTM D5185m	>2	1		
Fitanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>9	30		
_ead	ppm	ASTM D5185m	>30	8		
Copper	ppm	ASTM D5185m	>35	15		
in	ppm	ASTM D5185m	>4	2		
/anadium		ASTM D5185m	<b>7</b> 4	<1		
Cadmium	ppm	ASTM D5185m		<1		
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	10		
Barium	ppm	ASTM D5185m	0	1		
Nolybdenum	ppm	ASTM D5185m	60	53		
Manganese	ppm	ASTM D5185m	0	5		
//agnesium	ppm	ASTM D5185m	1010	763		
Calcium	ppm	ASTM D5185m	1070	1173		
Phosphorus	ppm	ASTM D5185m	1150	656		
Zinc	ppm	ASTM D5185m	1270	841		
Sulfur	ppm	ASTM D5185m	2060	2075		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	<b>▲</b> 89		
Sodium	ppm	ASTM D5185m		7		
Potassium	ppm	ASTM D5185m	>20	110		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0		
litration	Abs/cm	*ASTM D7624	>20	12.8		
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.1		
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.4		
Base Number (BN)	mg KOH/g		9.8	▲ 3.2		
Dase Mullibel (DIN)	ilig KOH/g	AO I IVI DZ030	5.0	0.2		



## **OIL ANALYSIS REPORT**







Certificate 12367

Sample No. Lab Number : 06232007 Unique Number : 11115500

: GFL0118156 Test Package : FLEET

Received : 10 Jul 2024 **Tested** Diagnosed

: 10 Jul 2024 : 11 Jul 2024 - Don Baldridge

W144 S6400 College Ct.

Muskego, WI US 53150 Contact: Brian Schlomann brian.schlomann@gflenv.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.  $^st$  - 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)

Report Id: GFL932 [WUSCAR] 06232007 (Generated: 07/12/2024 11:08:07) Rev: 1

T: (262)510-4586