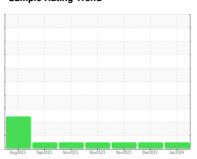


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id **929144** 

Component **Diesel Engine** 

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

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil

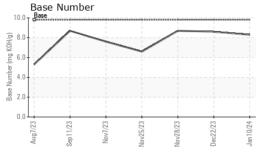
### **Fluid Condition**

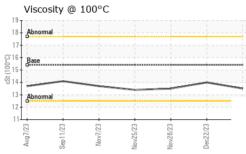
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Auglo23 Sup <sup>2</sup> 023 Nov <sup>2</sup> 023 Nov <sup>2</sup> 023 Nov <sup>2</sup> 023 Nov <sup>2</sup> 023 Om <sup>2</sup> 023 Jun <sup>2</sup> 024							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0102578	GFL0102569	GFL0100378	
Sample Date		Client Info		10 Jan 2024	22 Dec 2023	28 Nov 2023	
Machine Age	hrs	Client Info		3261	3142	2983	
Oil Age	hrs	Client Info		0	0	600	
Oil Changed		Client Info		Not Changd	N/A	Changed	
Sample Status				NORMAL	NORMAL	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	>110	17	12	54	
Chromium	ppm	ASTM D5185m	>4	<1	<1	4	
Nickel	ppm	ASTM D5185m	>2	0	<1	4	
Titanium	ppm	ASTM D5185m		0	<1	<1	
Silver	ppm	ASTM D5185m	>2	0	0	<1	
Aluminum	ppm	ASTM D5185m	>25	3	2	10	
Lead	ppm	ASTM D5185m	>45	0	0	0	
Copper	ppm	ASTM D5185m	>85	<1	<1	6	
Tin	ppm	ASTM D5185m	>4	0	0	0	
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	<1	<1	<1	
Barium	ppm	ASTM D5185m		0	0	0	
Molybdenum	ppm	ASTM D5185m	60	61	61	64	
Manganese	ppm	ASTM D5185m		0	0	<1	
Magnesium	ppm	ASTM D5185m	1010	1054	955	909	
Calcium	ppm	ASTM D5185m		1155	1076	1118	
Phosphorus	ppm	ASTM D5185m	1150	1134	988	953	
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1270 2060	1371 3399	1230	1195 2896	
	ppm				3238		
CONTAMINAN		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>30	4	3	7	
Sodium Potassium	ppm	ASTM D5185m	00	3	1	2	
	ppm	ASTM D5185m		<1	3	7	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.4	0.3	0.1	
Nitration	Abs/cm	*ASTM D7624		7.6	6.5	6.1	
Sulfation	Abs/.1mm	*ASTM D7415		19.7	18.9	17.9	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	14.6	14.0	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.3	8.6	8.7	



# **OIL ANALYSIS REPORT**

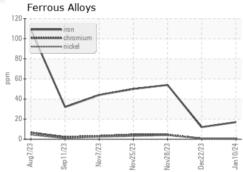


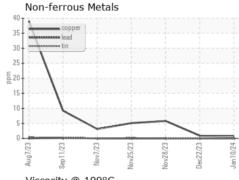


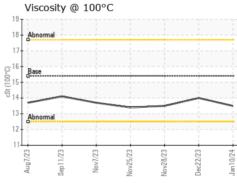
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

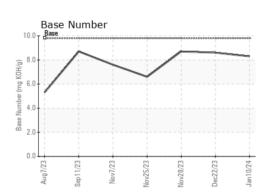
FLUID PROPE	RHES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	14.0	13.5

### **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10830413 Test Package : FLEET

: GFL0102578 : 06059031

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 12 Jan 2024

: 12 Jan 2024 Diagnosed Diagnostician : Wes Davis

GFL Environmental - 892 - Pauls Valley Hauling 405 East Airport Industrial Road

Pauls Valley, OK US 73075

Contact: Tony Graham tgraham2@wcamerica.com

\* - 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) T:

F: