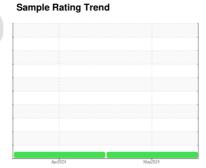


# **OIL ANALYSIS REPORT**



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

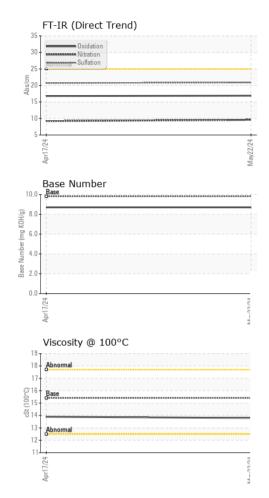
## **Fluid Condition**

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

N SHP 15W40 (-	J.:,					
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0122818	GFL0118806	
Sample Date		Client Info		22 May 2024	17 Apr 2024	
Machine Age	hrs	Client Info		7357	7222	
Oil Age	hrs	Client Info		7357	7222	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
-uel		WC Method	>3.0	<1.0	<1.0	
<i>N</i> ater		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	11	10	
Chromium	ppm	ASTM D5185m	>20	0	<1	
Nickel	ppm	ASTM D5185m	>5	1	2	
Γitanium	ppm	ASTM D5185m	>2	0	<1	
Silver	ppm	ASTM D5185m	>2	<1	<1	
Aluminum	ppm	ASTM D5185m	>20	3	3	
_ead	ppm	ASTM D5185m	>40	1	<1	
Copper	ppm	ASTM D5185m	>330	2	4	
Γin	ppm	ASTM D5185m	>15	<1	1	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	1	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	63	62	
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	1024	934	
Calcium	ppm	ASTM D5185m	1070	1112	1079	
Phosphorus	ppm	ASTM D5185m	1150	1055	1138	
Zinc	ppm	ASTM D5185m	1270	1324	1261	
Sulfur	ppm	ASTM D5185m	2060	3562	3421	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	
Sodium	ppm	ASTM D5185m		3	2	
Potassium	ppm	ASTM D5185m	>20	<1	2	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.7	0.6	
Nitration	Abs/cm	*ASTM D7624	>20	9.6	9.2	
	Abs/.1mm	*ASTM D7415	>30	20.9	20.7	
Sulfation	7100/.1111111					
Sulfation FLUID DEGRA			limit/base	current	history1	history2
			limit/base		history1	history2



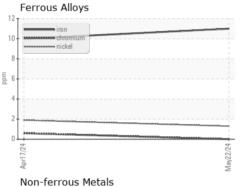
# **OIL ANALYSIS REPORT**

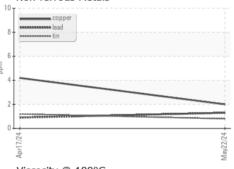


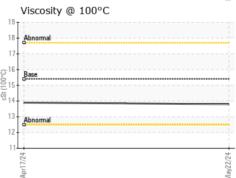
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance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

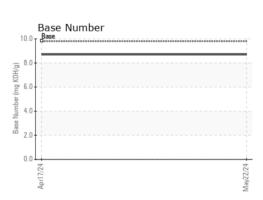
FLUID PROPE	RHES	method	limit/base		nistory1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.9	

## **GRAPHS**













Certificate 12367

Sample No. Unique Number : 11046982

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0122818 Lab Number : 06190230

Test Package : FLEET

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

Received : 24 May 2024 Tested Diagnosed

: 28 May 2024 : 28 May 2024 - Wes Davis

GFL Environmental - 836 - Kansas City Hauling

7801 East Truman Road Kansas City, MO US 64126

Contact: Loyce Stewart loyce.stewart@gflenv.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: