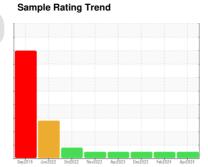


# **OIL ANALYSIS REPORT**









Machine Id 426065-402206

**Diesel Engine** 

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

# DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

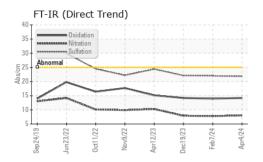
### **Fluid Condition**

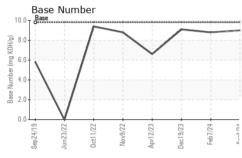
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

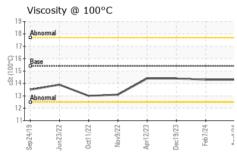
1 3HP 13W40 (						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0109342	GFL0109277	GFL0077267
Sample Date		Client Info		04 Apr 2024	07 Feb 2024	19 Dec 2023
Machine Age	hrs	Client Info		30069	30068	30064
Oil Age	hrs	Client Info		12	9	8
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
-uel		WC Method	>3.0	<1.0	<1.0	<1.0
Nater		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	14	14	23
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	2	1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	1	3
_ead	ppm	ASTM D5185m	>40	0	0	1
Copper	ppm	ASTM D5185m	>330	<1	2	3
Γin	ppm	ASTM D5185m	>15	0	<1	0
√anadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	2	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	58	56
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1064	951	885
Calcium	ppm	ASTM D5185m	1070	1152	1040	968
Phosphorus	ppm	ASTM D5185m	1150	1107	1022	908
Zinc	ppm	ASTM D5185m	1270	1358	1226	1103
Sulfur	ppm	ASTM D5185m	2060	4024	3027	2759
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	4	9
Sodium	ppm	ASTM D5185m		1	2	<1
Potassium	ppm	ASTM D5185m	>20	1	0	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	2.3	2.3	2.3
lituatian	Abs/cm	*ASTM D7624	>20	8.0	7.8	7.9
Nitration						
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	22.0	22.1
			>30 limit/base	21.8 current	22.0 history1	22.1 history2
Sulfation						



## **OIL ANALYSIS REPORT**



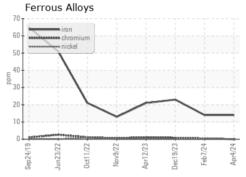




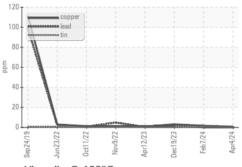
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

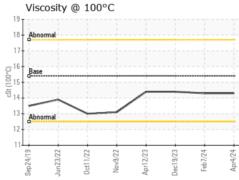
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	14.3	14.4

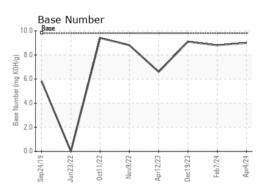
### **GRAPHS**















Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0109342 Lab Number : 06139713

Unique Number : 10964521 Test Package : FLEET

Received **Tested** Diagnosed

: 05 Apr 2024 : 06 Apr 2024

: 06 Apr 2024 - Wes Davis

GFL Environmental - 891 - Oklahoma City Hauling 1001 South Rockwell Oklahoma City, OK

US 73128

Contact: Andy Smith andrew.smith@gflenv.com T: (405)306-1651

Submitted By: Andy Smith

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.