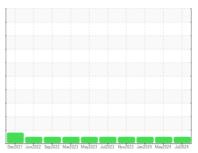


# **OIL ANALYSIS REPORT**

## Sample Rating Trend









Machine Id 927042 **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

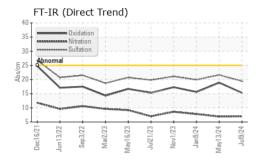
## **Fluid Condition**

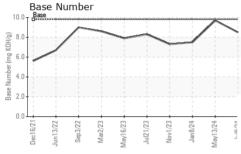
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

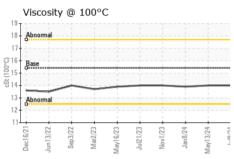
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0125457	GFL0116146	GFL0104547
Sample Date		Client Info		09 Jul 2024	13 May 2024	08 Jan 2024
Machine Age	hrs	Client Info		18291	18093	17479
Oil Age	hrs	Client Info		198	626	920
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
-uel		WC Method	>3.0	<1.0	<1.0	<1.0
<i>N</i> ater		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAI	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	7	33	20
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	3	5	2
Lead	ppm	ASTM D5185m	>40	0	2	<1
Copper	ppm	ASTM D5185m	>330	1	3	3
Γin	ppm	ASTM D5185m	>15	0	1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	0	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	62	57
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	951	966	913
Calcium	ppm	ASTM D5185m	1070	1116	1087	994
Phosphorus	ppm	ASTM D5185m	1150	1035	1066	980
Zinc	ppm	ASTM D5185m	1270	1233	1250	1155
Sulfur	ppm	ASTM D5185m	2060	2636	2703	2969
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	14	5
Sodium	ppm	ASTM D5185m		3	10	36
Potassium	ppm	ASTM D5185m	>20	2	3	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	0.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	7.0	6.9	7.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	21.6	19.9
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	18.9	15.6



## **OIL ANALYSIS REPORT**



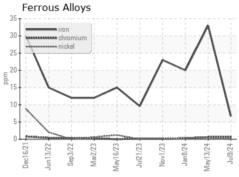


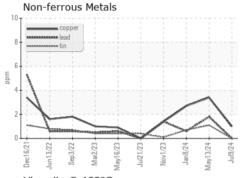


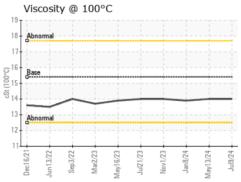
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

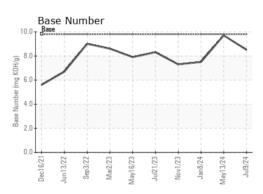
FLUID PROP	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	14.0	13.9

## **GRAPHS**













Certificate 12367

Laboratory Sample No. Lab Number : 06234652 Unique Number : 11123486 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0125457 Received

: 12 Jul 2024 **Tested** : 15 Jul 2024 Diagnosed : 15 Jul 2024 - Wes Davis

GFL Environmental - 947 - WB Horicon HC

N7296 County Rd V Horicon, WI US 53032

Contact: Tim Kieffer tim.kieffer@gflenv.com T: (608)219-0288

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.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: GFL947 [WUSCAR] 06234652 (Generated: 07/15/2024 08:40:53) Rev: 1

Submitted By: Seel also GFL947 - Tim Kieffer