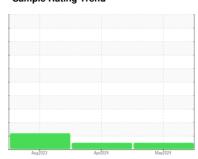


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id 927113 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

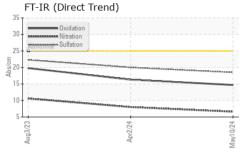
## **Fluid Condition**

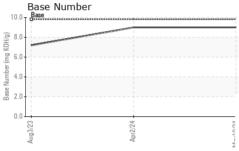
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

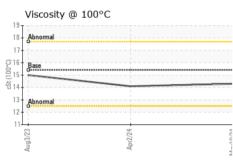
iAL)		Au	2023	Apr2024 May20	24	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0116515	GFL0116522	GFL0084840
Sample Date		Client Info		10 May 2024	02 Apr 2024	03 Aug 2023
Machine Age	hrs	Client Info		46696	46573	19874
Oil Age	hrs	Client Info		46573	19874	200
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
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	>100	8	9	27
Chromium	ppm	ASTM D5185m	>20	1	<1	1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	3	2	3
Lead	ppm	ASTM D5185m	>40	<1	<1	2
Copper	ppm	ASTM D5185m	>330	2	0	2
Tin	ppm	ASTM D5185m	>15	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	11	8
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	62	63	63
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	950	955	1069
Calcium	ppm	ASTM D5185m	1070	1062	1068	1291
Phosphorus	ppm	ASTM D5185m	1150	1029	1020	1036
Zinc	ppm	ASTM D5185m	1270	1198	1238	1385
Sulfur	ppm	ASTM D5185m	2060	3308	3426	3662
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	5	9
Sodium	ppm	ASTM D5185m		24	70	<u></u> 161
Potassium	ppm	ASTM D5185m	>20	13	27	16
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	6.6	8.0	10.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	20.0	22.3
FLUID DEGRAI	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	16.3	19.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.0	9.0	7.2

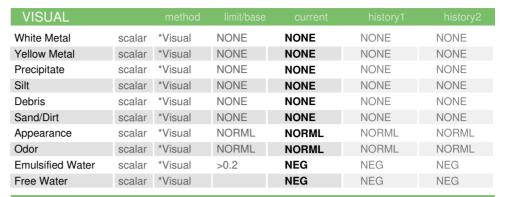


# **OIL ANALYSIS REPORT**



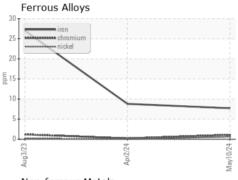


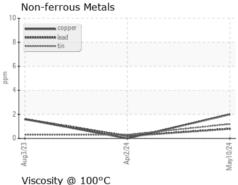


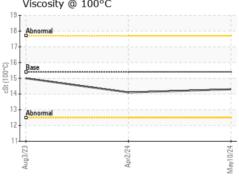


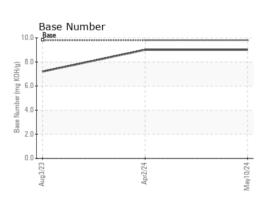
FLUID PROPE	ERITES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	14.1	15.0

# **GRAPHS**













Certificate 12367

Laboratory Sample No.

Lab Number : 06187349

: GFL0116515

Unique Number : 11044101 Test Package : FLEET

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

Received : 22 May 2024 **Tested** : 23 May 2024

Diagnosed : 23 May 2024 - Wes Davis

4808 cunningham Rd

US 61802 Contact: Kristine Tryon Ktryon@gflenv.com T:

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)

GFL Environmental - 959A - Urbana HC

F:

Urbana, IL