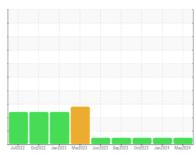


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id
723042
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

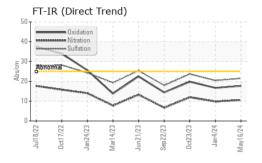
### **Fluid Condition**

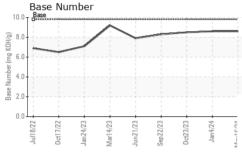
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

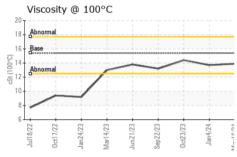
GAL) "มนซิบัวร ดะชัยวร มะเซ็บรร พบะชับรร มะเซ็บรร จะเรียร จะเซ็บรร มะเซ็บรร มะเซ็บรร มะเซ็บรร มะเซ็บรร มะเซ็บรร						
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0116018	GFL0097488	GFL0097468
Sample Date		Client Info		16 May 2024	04 Jan 2024	23 Oct 2023
Machine Age	hrs	Client Info		21516	20888	20658
Oil Age	hrs	Client Info		19824	19824	19824
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	ΓΙΟΝ	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 METAI	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	34	30	44
Chromium	ppm	ASTM D5185m	>20	3	3	8
Nickel	ppm	ASTM D5185m	>4	2	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	1	0	0
Aluminum	ppm	ASTM D5185m	>20	5	2	4
Lead	ppm	ASTM D5185m	>40	1	<1	0
Copper	ppm	ASTM D5185m	>330	2	1	1
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	5	8
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	67	57	59
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	983	919	936
Calcium	ppm	ASTM D5185m	1070	1143	1070	1225
Phosphorus	ppm	ASTM D5185m	1150	1017	947	1059
Zinc	ppm	ASTM D5185m	1270	1257	1271	1251
Sulfur	ppm	ASTM D5185m	2060	2964	2799	2957
CONTAMINAL	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	4	7
Sodium	ppm	ASTM D5185m		15	11	17
Potassium	ppm	ASTM D5185m	>20	3	<1	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.3	1	1.5
Nitration	Abs/cm	*ASTM D7624	>20	10.6	9.8	12.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	20.4	23.7
FLUID DEGRA	NOITAG	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.7	16.7	19.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	8.6	8.5



# **OIL ANALYSIS REPORT**



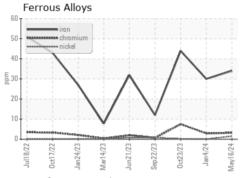


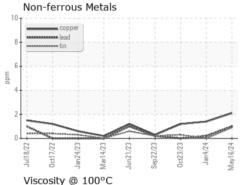


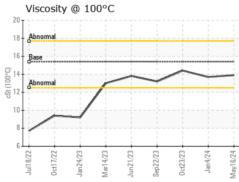
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

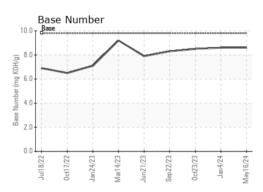
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.7	14.4

## **GRAPHS**













Laboratory Sample No.

: GFL0116018 Lab Number : 06191884 Unique Number : 11048636

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

: 28 May 2024 **Tested** : 29 May 2024 Diagnosed : 29 May 2024 - Wes Davis

1241 KING SETTLEMENT RD ALPENA, MI US 49707

GFL Environmental - 641 - Alpena

Contact: DYLAN TOLAN dylan.tolan@gflenv.com T: (989)854-7203

Test Package : FLEET Certificate 12367 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)