

# **OIL ANALYSIS REPORT**

## Sample Rating Trend

# **NORMAL**



Machine Id 713030 Component **Diesel Engine** 

**PETRO CANADA DUR** 

## 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

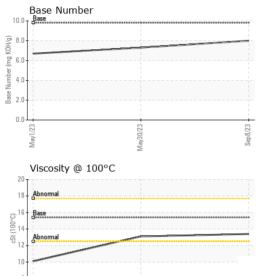
## **Fluid Condition**

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

N SHP 15W40 (			y <sup>2023</sup>	May/2023 Sap/20	history1	history2
Sample Number		Client Info		GFL0092915	GFL0067583	GFL006756
Sample Date		Client Info		08 Sep 2023	30 May 2023	01 May 202
Machine Age	hrs	Client Info		2034	1285	1085
Oil Age	hrs	Client Info		0	592	590
Oil Changed	1113	Client Info		N/A	Changed	Changed
Sample Status		Oliciti IIIIo		NORMAL	NORMAL	ABNORMA
· ·						
CONTAMINA	TION	method	limit/base	current	history1	history
Fuel		WC Method	>3.0	<1.0	<1.0	0.5
Glycol		WC Method		NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history
Iron	ppm	ASTM D5185m	>120	6	16	41
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	2	4
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	1	0
Aluminum	ppm	ASTM D5185m	>20	<1	2	3
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	6	146	187
Tin	ppm	ASTM D5185m	>15	1	2	4
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history
Boron	ppm	ASTM D5185m	0	11	18	293
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	62	107
Manganese	ppm	ASTM D5185m	0	<1	1	4
Magnesium	ppm	ASTM D5185m	1010	958	973	632
Calcium	ppm	ASTM D5185m	1070	1204	1123	1341
Phosphorus	ppm	ASTM D5185m	1150	1021	1008	659
Zinc	ppm	ASTM D5185m	1270	1248	1278	806
Sulfur	ppm	ASTM D5185m	2060	3609	3034	2212
CONTAMINAL	NTS	method	limit/base	current	history1	history
Silicon	ppm	ASTM D5185m	>25	4	9	<b>6</b> 0
Sodium	ppm	ASTM D5185m		3	3	0
Potassium	ppm	ASTM D5185m	>20	4	3	6
INFRA-RED		method	limit/base	current	history1	history2



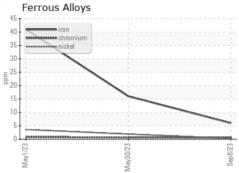
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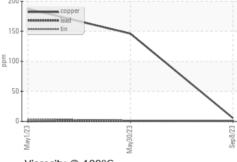
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
- FILUR BB6BE						

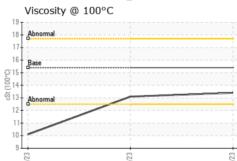
FLUID FROF		memou			HISTORY	1115101 y2
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.1	<u> </u>

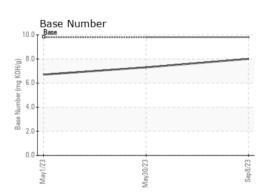
## **GRAPHS**















Test Package : FLEET

Laboratory Sample No. Lab Number Unique Number : 10647966

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0092915 : 05952007

Received

: 14 Sep 2023 Diagnosed : 18 Sep 2023 Diagnostician : Wes Davis

GFL Environmental - 641 - Alpena 1241 KING SETTLEMENT RD

ALPENA, MI US 49707

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

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)