

# **OIL ANALYSIS REPORT**

## Sample Rating Trend





Area (43337HA)
Machine Id
3697
Component
Diesel Engine

PETRO CANADA DURON SHP 15W40 (8 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

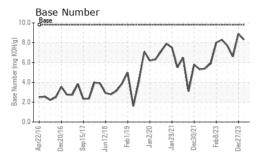
### **Fluid Condition**

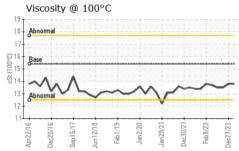
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

ON SHP 15W40 (8 GAL)						
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0077788	GFL0077765	GFL006506
Sample Date		Client Info		05 Feb 2024	27 Dec 2023	25 Sep 2023
Machine Age	hrs	Client Info		21855	306300	298567
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	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	3	5	8
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Γitanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	4
_ead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	2	4	3
Γin	ppm	ASTM D5185m	>15	<1	<1	<1
/anadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	5	25
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	65	41
Manganese	ppm	ASTM D5185m		<1	0	1
Magnesium	ppm	ASTM D5185m	1010	963	1018	535
Calcium	ppm	ASTM D5185m	1070	1038	1118	1718
Phosphorus	ppm	ASTM D5185m	1150	1031	1047	950
Zinc	ppm	ASTM D5185m	1270	1246	1307	1152
Sulfur	ppm	ASTM D5185m	2060	3136	3169	2877
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	17	5	5
Sodium	ppm	ASTM D5185m		4	7	4
Potassium	ppm	ASTM D5185m	>20	9	38	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.1	0.1	0.3
Vitration	Abs/cm	*ASTM D7624	>20	5.6	5.4	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	17.8	20.6
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	0.5	440	10 E	10.4
Jaluation	AUS/.TITIIII	A311VI D7414	>25	14.0	13.5	18.4



## **OIL ANALYSIS REPORT**



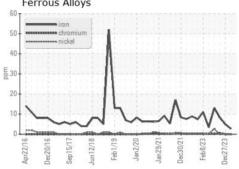


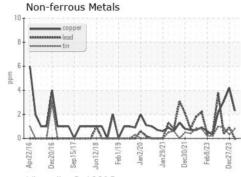
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

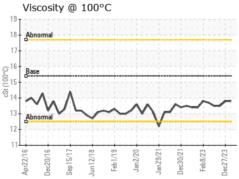
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.8	13.5

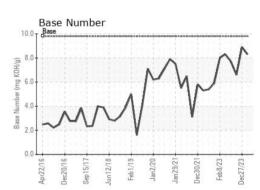
## **GRAPHS**















Certificate L2367

Laboratory Sample No.

Test Package : FLEET

: GFL0077788 Lab Number : 06084176 Unique Number : 10871621

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 08 Feb 2024 **Tested** 

: 09 Feb 2024 Diagnosed : 09 Feb 2024 - Wes Davis

GFL Environmental - 650 - West Point Hauling 7825 Parham Landing Road

West Point, VA US 23181

Contact: Jason Smith jasonsmith@gflenv.com

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)

T:

F: