

## **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL



DIAGNOSIS Recommendation

Contamination

Fluid Condition

Wear

oil.

Machine Id 929097

Fluid

Resample at the next service interval to monitor.

There is no indication of any contamination in the

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

oil is suitable for further service.

All component wear rates are normal.

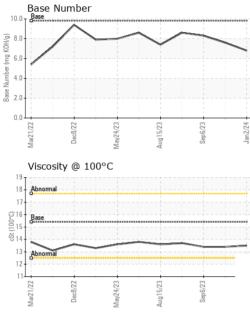
Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

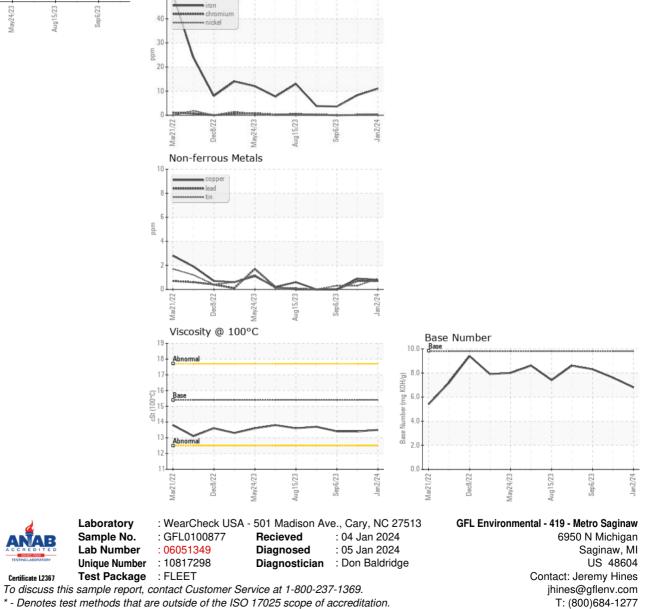
N 3HF 15W40 (*	une,	Mar2022	Dec2022 May2023	Aug2023 Sep2023	Jan2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history
Sample Number		Client Info		GFL0100877	GFL0086823	GFL00868
Sample Date		Client Info		02 Jan 2024	05 Oct 2023	06 Sep 202
Machine Age	mls	Client Info		151490	143886	77735
Oil Age	mls	Client Info		0	143886	77735
Oil Changed		Client Info		Changed	Changed	Not Chang
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history
Iron	ppm	ASTM D5185m	>120	11	8	4
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	0	<1
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	<1	<1	0
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history
Boron	ppm	ASTM D5185m	0	4	2	4
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	60	59	59	62
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	903	844	989
Calcium	ppm	ASTM D5185m	1070	1031	1042	1147
Phosphorus	ppm	ASTM D5185m	1150	940	916	1004
Zinc	ppm	ASTM D5185m	1270	1210	1124	1248
Sulfur	ppm	ASTM D5185m	2060	2461	2597	3584
CONTAMINA	NTS	method	limit/base	current	history1	history
Silicon	ppm	ASTM D5185m	>25	4	5	4
Sodium	ppm	ASTM D5185m		5	1	2
Potassium	ppm	ASTM D5185m	>20	2	4	<1
INFRA-RED		method	limit/base	current	history1	history
Soot %	%	*ASTM D7844	>4	0.8	0.4	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.7	6.6	5.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	18.6	17.4
FLUID DEGRA	DATION	method	limit/base	current	history1	histor
Oxidation	Abs/.1mm	*ASTM D7414	>25	10.1	14.1	13.0
Oxidation	AUS/.111111		>20	16.1	14.1	13.0



## **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			
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG			
Free Water	scalar	*Visual		NEG	NEG	NEG			
FLUID PROPE	RTIES	method	limit/base	current	history1	history2			
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.4	13.4			
GRAPHS									
Ferrous Alloys									
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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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