

## **OIL ANALYSIS REPORT**

Sample Rating Trend



DIAGNOSIS

Recommendation

Wear

oil.

breaking in. Contamination

Fluid Condition

Resample at the next service interval to monitor.

There is no indication of any contamination in the

Metal levels are typical for a new component

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

oil is suitable for further service.

Area (EZC467) Machine Id 912050 Component Diesel Engine Fluid

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



Sample Number		Client Info		GFL0089643	GFL0089591	GFL0046601
Sample Date		Client Info		07 Feb 2024	24 Aug 2023	07 Aug 2023
Machine Age	hrs	Client Info		600	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	0.4	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	37	38	4
Chromium	ppm	ASTM D5185m		2	1	<1
Nickel	ppm	ASTM D5185m	>5	<1	5	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	1	0
Aluminum	ppm	ASTM D5185m		5	12	0
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	1	19	<1
Tin	ppm	ASTM D5185m	>15	0	3	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	70	6
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	65	107	64
Manganese	ppm	ASTM D5185m	0	<1	4	<1
Magnesium	ppm	ASTM D5185m	1010	971	759	918
Calcium	ppm	ASTM D5185m	1070	1088	1407	1039
Phosphorus	ppm	ASTM D5185m	1150	1066	752	970
Zinc	ppm	ASTM D5185m	1270	1253	942	1198
Sulfur	ppm	ASTM D5185m	2060	3064	2763	3416
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	<b>1</b> 70	4
Sodium	ppm	ASTM D5185m		39	5	2
Potassium	ppm	ASTM D5185m	>20	3	33	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	1	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.9	10.6	5.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	23.7	17.3
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	22.6	12.8

8.5

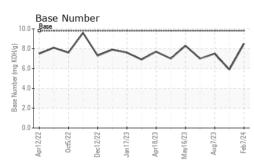
Base Number (BN) mg KOH/g ASTM D2896 9.8

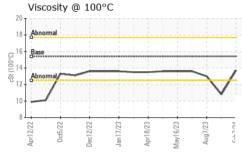
7.5

5.9



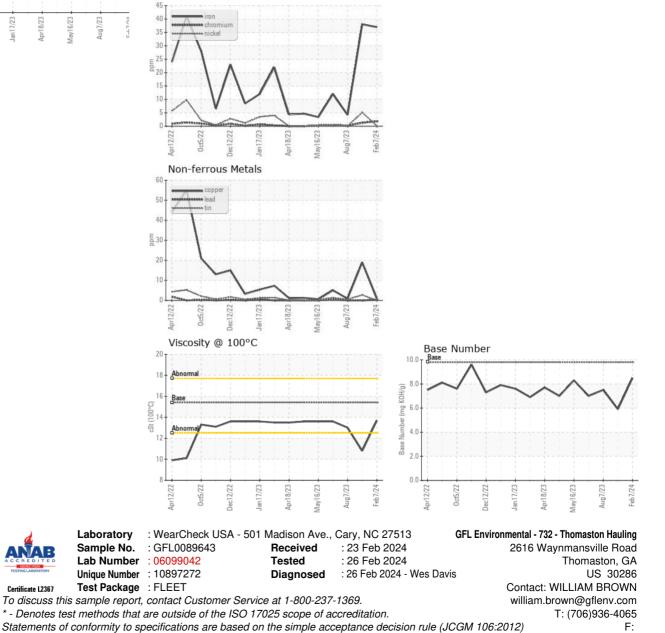
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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
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	13.7	<b>1</b> 0.8	13.0
GRAPHS						

Ferrous Alloys



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