

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Area (34736UA) Machine Id 426034-4678 Component

Diesel Engine

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

			Jan2021 Jul2022	Jun2023 Dec2023	Feb2024	
SAMPLE INFOF	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0112766	GFL0101317	GFL004547
Sample Date		Client Info		14 Feb 2024	10 Jan 2024	12 Dec 202
Machine Age	hrs	Client Info		40001	39747	39533
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Change
Sample Status				NORMAL	ABNORMAL	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 METAL	_S	method	limit/base	current	history1	history
ron	ppm	ASTM D5185m	>120	23	50	40
Chromium	ppm	ASTM D5185m	>20	<1	1	1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	2	2
Lead	ppm	ASTM D5185m	>40	0	2	2
Copper	ppm	ASTM D5185m	>330	<1	3	2
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history
Boron	ppm	ASTM D5185m	0	3	10	1
Barium	ppm	ASTM D5185m	0	0	0	12
Molybdenum	ppm	ASTM D5185m	60	51	62	59
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	850	936	928
Calcium	ppm	ASTM D5185m	1070	915	1070	1010
Phosphorus	ppm	ASTM D5185m	1150	982	1006	973
Zinc	ppm	ASTM D5185m	1270	1121	1195	1191
Sulfur	ppm	ASTM D5185m	2060	2770	2860	3117
CONTAMINA	NTS	method	limit/base	current	history1	history
Silicon	ppm	ASTM D5185m	>25	4	6	5
Sodium	ppm	ASTM D5185m		<1	1	0
Potassium	ppm	ASTM D5185m	>20	<1	1	3
INFRA-RED		method	limit/base	current	history1	history
Soot %	%	*ASTM D7844	>4	2.7	5 .3	3.5
Nitration	Abs/cm	*ASTM D7624	>20	7.3	15.1	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	30.9	23.2
FLUID DEGRA	DATION	method	limit/base	current	history1	history
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.8	23.1	13.2
Base Number (BN)			220	12.0	20.1	6.4

DIAGNOSIS Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

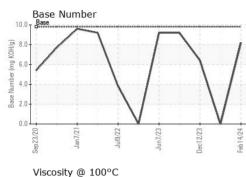
There is no indication of any contamination in the oil.

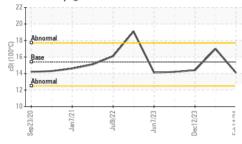
Fluid Condition

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

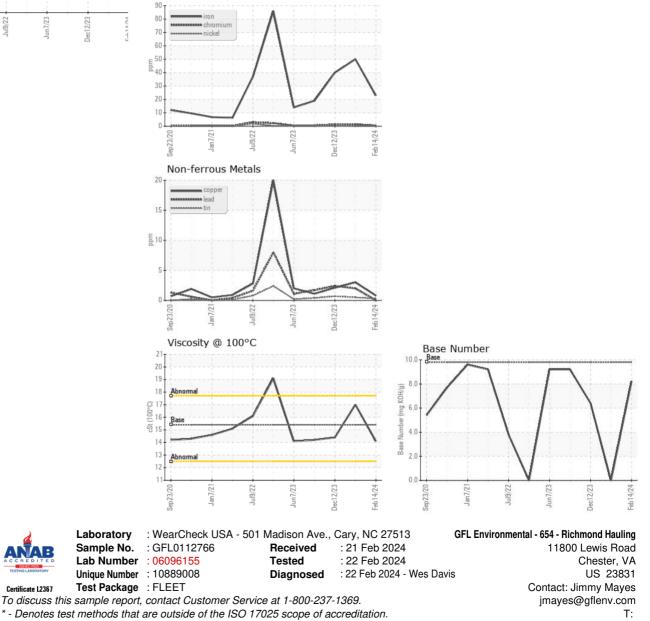


OIL ANALYSIS REPORT





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	14.1	1 7.0	14.4
GRAPHS						
Ferrous Alloys						





Submitted By: TECHNICIAN ACCOUNT

F: