

OIL ANALYSIS REPORT

Sample Rating Trend





DIAGNOSIS

Recommendation

Contamination

Fluid Condition

Wear

oil.

Machine Id 7845M

Fluid

Resample at the next service interval to monitor.

There is no indication of any contamination in the

alkalinity remaining in the oil. The condition of the

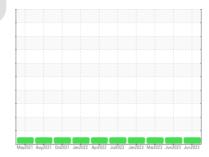
The BN result indicates that there is suitable

oil is suitable for further service.

All component wear rates are normal.

Component Diesel Engine

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





SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0082739	GFL0082795	GFL0071183
Sample Date		Client Info		26 Jun 2023	06 Jun 2023	23 Mar 2023
Machine Age	hrs	Client Info		8482	8972	8333
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>120	4	10	10
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	2	2
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	<1	9	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	7	1	1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	57	61	59

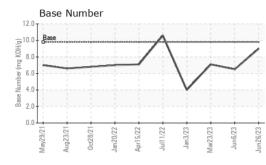
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	57	61	59
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	898	904	1073
Calcium	ppm	ASTM D5185m	1070	1094	1063	1196
Phosphorus	ppm	ASTM D5185m	1150	988	940	1048
Zinc	ppm	ASTM D5185m	1270	1225	1201	1408
Sulfur	ppm	ASTM D5185m	2060	3202	2607	3553

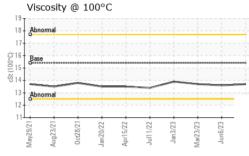
CONTAMINANTS		method			history 1	history 2	
Silicon	ppm	ASTM D5185m	>25	4	4	3	
Sodium	ppm	ASTM D5185m		10	1	4	
Potassium	ppm	ASTM D5185m	>20	2	1	2	

INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>4	0.3	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	5.8	8.6	8.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	20.9	19.8
FLUID DEGRAD	ATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.3	17.0	15.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.0	6.5	7.1

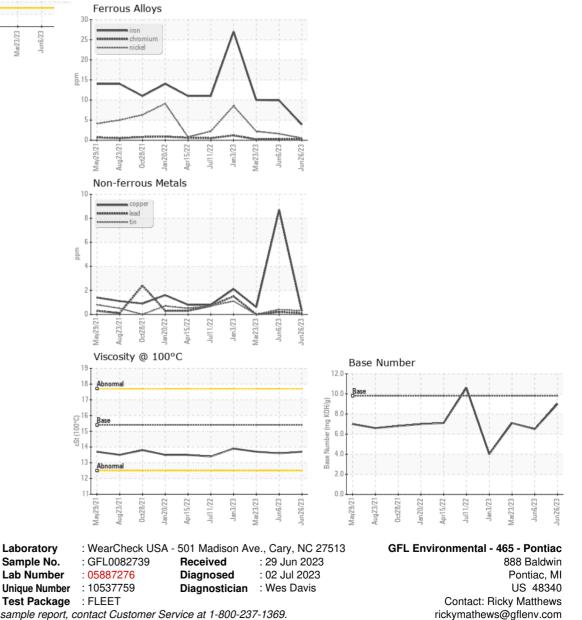


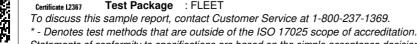
OIL ANALYSIS REPORT





VISUAL		method	limit/base	current	history 1	history 2
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	history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.6	13.7
GRAPHS						





Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F:

T: (586)825-9514