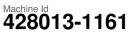


OIL ANALYSIS REPORT

Sample Rating Trend





Component Diesel Engine

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

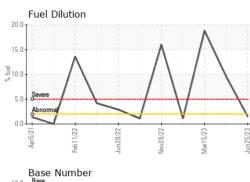
Fluid Condition

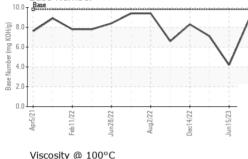
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

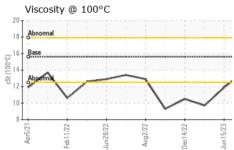
		Apr2021	Feb2022 Jun2022	Aug2022 Dec2022 Ju	in2023	
SAMPLE INFORM	IATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0062183	GFL0062226	GFL0062182
Sample Date		Client Info		25 Jun 2023	15 Jun 2023	15 Mar 2023
Machine Age	hrs	Client Info		12696	12649	292720
Oil Age	hrs	Client Info		47	432	4684
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	SEVERE	SEVERE
CONTAMINATI	ON	method	limit/base	current	history 1	history 2
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	3	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>100	8	68	22
Chromium	ppm	ASTM D5185m	>20	<1	6	2
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	4	2
Lead	ppm	ASTM D5185m	>40	<1	7	3
Copper	ppm	ASTM D5185m	>330	<1	2	<1
Tin	ppm	ASTM D5185m	>15	<1	2	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		15	5	4
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		55	60	48
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m		917	866	683
Calcium	ppm	ASTM D5185m		1132	984	856
Phosphorus	ppm	ASTM D5185m		1025	892	760
Zinc	ppm	ASTM D5185m		1252	1103	940
Sulfur	ppm	ASTM D5185m		3761	2790	2197
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	3	8	2
Sodium	ppm	ASTM D5185m		1	37	0
Potassium	ppm	ASTM D5185m	>20	<1	4 8	2
Fuel	%	ASTM D3524	>2.0	1.5	9.6	18.8
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	0.2	0.8	0.4
Nitration	Abs/cm	*ASTM D7624	>20	6.3	15.4	12.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	28.5	21.1
Ganation						
FLUID DEGRAD	ATION	method	limit/base	current	history 1	history 2
	ATION Abs/.1mm	method *ASTM D7414	limit/base	current 15.9	history 1 30.7	history 2 18.9



OIL ANALYSIS REPORT

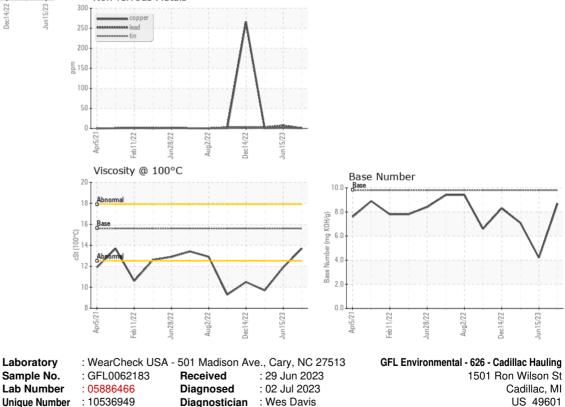






VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	15.6	13.7	▲ 11.9	9 .7
GRAPHS						
Ferrous Alloys						
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Apr5/21	Aug2/22		57/c 1000			





 Certificate L2367
 Test Package
 : FLEET (Additional Tests: PercentFuel)

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
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 * - 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)

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Contact: GARY BREWER

gbrewerjr@gflenv.com

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