

OIL ANALYSIS REPORT

Sample Rating Trend

FUEL

Machine Id 428015-901 Component Diesel Engine

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

DIAGNOSIS

A 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

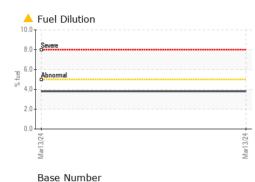
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

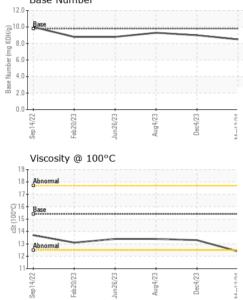
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0101651	GFL0100049	GFL0062202
Sample Date		Client Info		13 Mar 2024	04 Dec 2023	04 Aug 2023
Machine Age	hrs	Client Info		17027	17021	17020
Oil Age	hrs	Client Info		16850	191	191
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				MARGINAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	19	8	5
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	2	<1
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	2	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	0	0
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	10	10	8
Barium	ppm	ASTM D5185m	0	0	0	2
Molybdenum	ppm	ASTM D5185m	60	60	64	65
Manganese	ppm	ASTM D5185m	0	<1	0	0
Magnesium	ppm	ASTM D5185m	1010	865	901	886
Calcium	ppm	ASTM D5185m	1070	1041	1077	1165
Phosphorus	ppm	ASTM D5185m	1150	986	950	1025
Zinc	ppm	ASTM D5185m	1270	1177	1204	1221
Sulfur	ppm	ASTM D5185m	2060	3343	3139	3418
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	4	2
Sodium	ppm	ASTM D5185m		17	12	3
Potassium	ppm	ASTM D5185m	>20	4	3	3
Fuel	%	ASTM D3524	>5	A 3.8	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.5	6.2	6.9
	Abs/.1mm	*ASTM D7415		18.8	17.6	17.7
Sulfation						
Sulfation FLUID DEGRAE	ATION	method	limit/base	current	history1	history2
Sulfation FLUID DEGRAD Oxidation	D <mark>ATION</mark> Abs/.1mm	method *ASTM D7414	limit/base	current 15.6	history1 13.7	history2 14.1



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VISUAI





VISUAL		method	in in base	Current	matory	Thotory 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	RHES	method	limit/base	current	history1	history2		
Visc @ 100°C	cSt	ASTM D445	15.4	12.4	13.3	13.4		
GRAPHS								

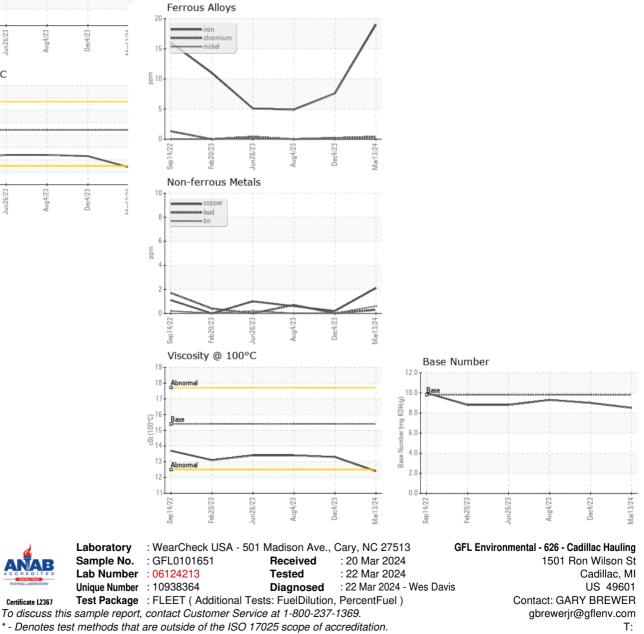
limit/base

current

method

historv1

history2



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

Certificate L2367

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