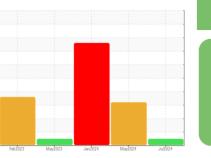


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id

426138 - SW4614

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Engine) $% \label{eq:commutative}$

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

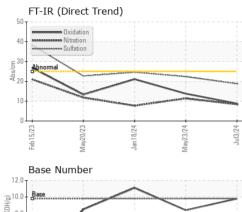
Fluid Condition

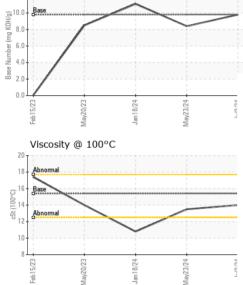
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0105465	GFL0123567	GFL0105519
Sample Date		Client Info		03 Jul 2024	23 May 2024	18 Jan 2024
Machine Age	mls	Client Info		289644	287726	277220
Oil Age	mls	Client Info		289644	287726	277220
Oil Changed		Client Info		Not Changd	Changed	N/A
Sample Status				NORMAL	ABNORMAL	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	0.6
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	39	1 37	<u> </u>
Chromium	ppm	ASTM D5185m	>20	2	7	<u> </u>
Nickel	ppm	ASTM D5185m	>4	<1	1	1
Titanium	ppm	ASTM D5185m		<1	<1	2
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	9	1 5
Lead	ppm	ASTM D5185m	>40	<1	<1	3
Copper	ppm	ASTM D5185m	>330	28	125	11
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	<1	58
Barium	ppm	ASTM D5185m	0	0	3	14
Molybdenum	ppm	ASTM D5185m	60	45	58	50
Manganese	ppm	ASTM D5185m	0	<1	2	6
Magnesium	ppm	ASTM D5185m	1010	12	48	450
Calcium	ppm	ASTM D5185m	1070	2333	2487	1730
Phosphorus	ppm	ASTM D5185m	1150	1033	1140	1044
Zinc	ppm	ASTM D5185m	1270	1242	1240	1283
Sulfur	ppm	ASTM D5185m	2060	3497	2929	3335
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	15	<mark>▲</mark> 38	8 4
Sodium	ppm	ASTM D5185m		2	5	0
Potassium	ppm	ASTM D5185m	>20	3	5	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.7	1.7	0.7
Nitration	Abs/cm	*ASTM D7624	>20	8.4	11.4	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	22.4	24.6
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	8.8	13.8	21.1
				0.0	10.0	



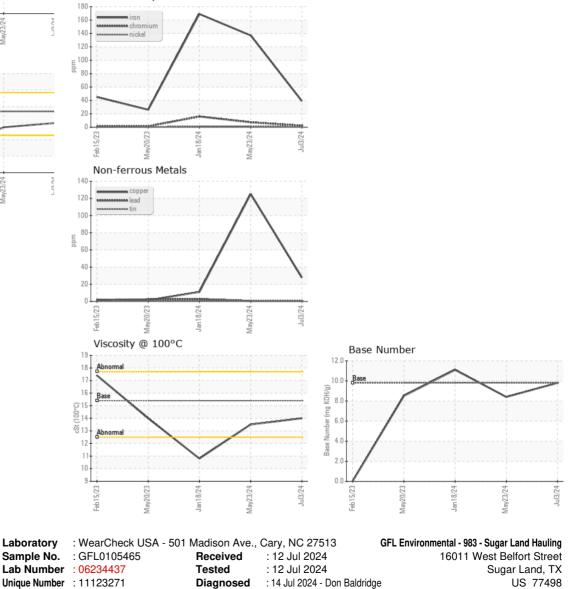
OIL ANALYSIS REPORT





VISUAL		method				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	14.0	13.5	0.8
GRAPHS						

Ferrous Alloys



Unique Number : 11123271 Test Package : FLEET Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. adrianmartinez@gflenv.com * - 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)

Report Id: GFL983 [WUSCAR] 06234437 (Generated: 07/14/2024 12:39:10) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

Contact: Adrian Martinez

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