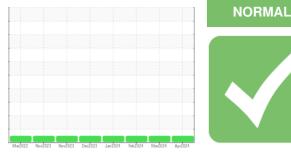


OIL ANALYSIS REPORT

Sample Rating Trend





Diesel Engine

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

SAMPLE INFORMATION meth

DIAGNOSIS Recommendation

Resample at the next service interval to monitor.

Machine Id 99M

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

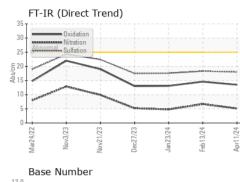
Fluid Condition

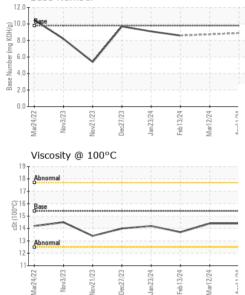
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFOR		method	limit/base	current	nistory i	nistory2
Sample Number		Client Info		GFL0104463	GFL0104435	GFL0110149
Sample Date		Client Info		11 Apr 2024	12 Mar 2024	13 Feb 2024
Machine Age	hrs	Client Info		4372	284614	20274
Oil Age	hrs	Client Info		600	0	600
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
-			12			
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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	history2
Iron	ppm	ASTM D5185m	>80	5	17	23
Chromium	ppm	ASTM D5185m	>5	د <1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	5	3	6
Lead	ppm	ASTM D5185m	>30	0	<1	0
Copper	ppm	ASTM D5185m		<1	<1	<1
Tin	ppm	ASTM D5185m	>5	<1	<1	<1
Vanadium	ppm	ASTM D5185m	>5	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ppin		11 1.0		-	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	2	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	57	56
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	1003	916	926
Calcium	ppm	ASTM D5185m	1070	1120	1042	1000
Phosphorus	ppm	ASTM D5185m	1150	1140	1014	1028
Zinc	ppm	ASTM D5185m	1270	1323	1233	1238
Sulfur	ppm	ASTM D5185m	2060	3712	3237	3081
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	nom	ASTM D5185m	00	-	5	5
0	ppm	ASTIVI DOTODITI	>20	3	5	0
Sodium	ppm ppm	ASTM D5185m	>20	3 <1	3	4
Potassium		ASTM D5185m	>20 >20			
Potassium	ppm	ASTM D5185m	>20	<1	3 4	4
Potassium INFRA-RED	ppm ppm	ASTM D5185m ASTM D5185m method	>20 limit/base	<1 5 current	3	4 <1 history2
Potassium INFRA-RED Soot %	ppm ppm %	ASTM D5185m ASTM D5185m method *ASTM D7844	>20 limit/base >3	<1 5 current 0.2	3 4 history1	4 <1 history2 0.2
Potassium INFRA-RED Soot % Nitration	ppm ppm % Abs/cm	ASTM D5185m ASTM D5185m Method *ASTM D7844 *ASTM D7624	>20 limit/base >3 >20	<1 5 current 0.2 5.1	3 4 history1 	4 <1 history2 0.2 6.7
Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7844 *ASTM D7624	>20 limit/base >3 >20 >30	<1 5 current 0.2 5.1 18.0	3 4 history1 	4 <1 history2 0.2 6.7 18.3
Potassium INFRA-RED Soot % Nitration	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7844 *ASTM D7624	>20 limit/base >3 >20	<1 5 current 0.2 5.1	3 4 history1 	4 <1 history2 0.2 6.7
Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7844 *ASTM D7624	>20 limit/base >3 >20 >30	<1 5 current 0.2 5.1 18.0	3 4 history1 	4 <1 history2 0.2 6.7 18.3
Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRAE	ppm ppm % Abs/cm Abs/.1mm DATION	ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7615 method	>20 limit/base >3 >20 >30 limit/base	<1 5 current 0.2 5.1 18.0 current	3 4 history1 history1	4 <1 history2 0.2 6.7 18.3 history2

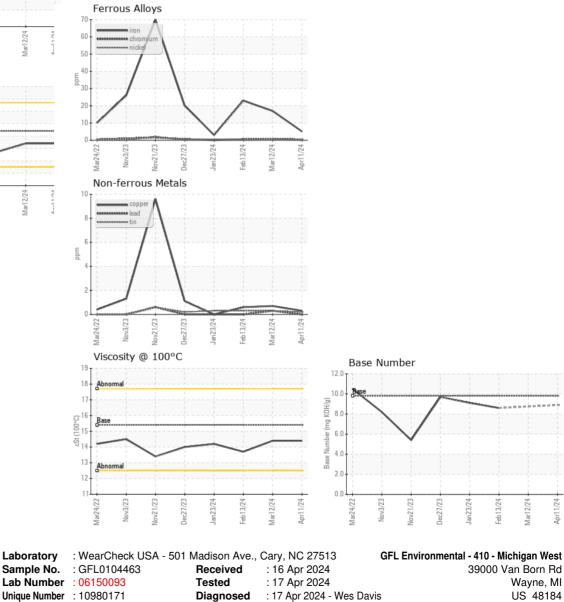


OIL ANALYSIS REPORT





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	14.4	14.4	13.7
GRAPHS						





Test Package : FLEET Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. * - 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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Report Id: GFL410 [WUSCAR] 06150093 (Generated: 04/17/2024 12:18:50) Rev: 1

Submitted By: seel also GFL468 - Laura Wilson

Apr11/24