

OIL ANALYSIS REPORT

Area (64837P)

Diesel Engine

PETRO CANADA DURON SHP 15W40 (10 GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

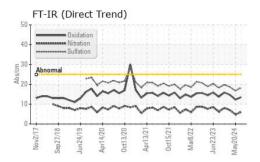
Fluid Condition

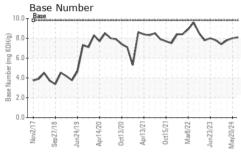
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

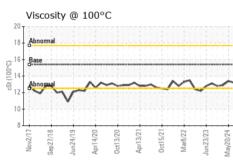
CAMPLE INFORM	44 T ION					
SAMPLE INFORM	//ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0113902	GFL0113932	GFL0093769
Sample Date		Client Info		31 May 2024	20 May 2024	15 Jan 2024
Machine Age	hrs	Client Info		15183	15095	14496
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	5	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>165	3	4	4
Chromium	ppm	ASTM D5185m	>5	<1	<1	0
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	<1	1	<1
Lead	ppm	ASTM D5185m	>150	0	<1	2
Copper	ppm	ASTM D5185m	>90	<1	1	<1
Tin	ppm	ASTM D5185m	>5	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	7	7	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	55	58	57
Manganese	ppm	ASTM D5185m	0	0	0	0
Magnesium	ppm	ASTM D5185m	1010	861	889	952
Calcium	ppm	ASTM D5185m	1070	1068	1074	1049
Phosphorus	ppm	ASTM D5185m	1150	1009	949	1027
Zinc	ppm	ASTM D5185m	1270	1186	1209	1244
Sulfur	ppm	ASTM D5185m	2060	3433	3130	2886
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	25	24	4
Sodium	ppm	ASTM D5185m		2	<1	3
Potassium	ppm	ASTM D5185m	>20	0	2	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.2	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.0	4.8	7.0
Sulfation	Abs/.1mm	*ASTM D7415		18.2	16.7	18.7
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.5	12.3	14.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.1	8.0	7.8
	39					



OIL ANALYSIS REPORT



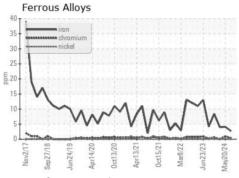


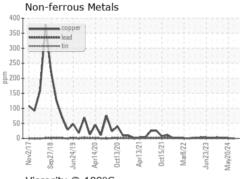


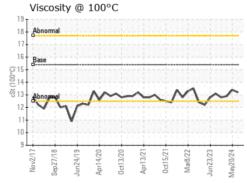
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

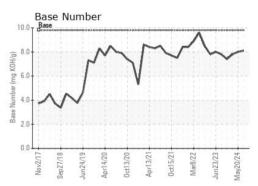
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	13.4	12.9

GRAPHS













Certificate 12367

Laboratory Sample No.

Test Package : FLEET

: GFL0113902 Lab Number : 06198874 Unique Number : 11060997

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 04 Jun 2024 **Tested** : 05 Jun 2024

Diagnosed

: 05 Jun 2024 - Wes Davis

GFL Environmental - 029 - Wytheville 2390 North 4th Street Wytheville, VA

US 24382 Contact: CHARLES CORVIN

charles.corvin@gflenv.com;canastasio@wearcheckusa.com T: (276)223-4476

* - 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)

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

F: (276)223-1283 Submitted By: CHARLES CORVIN