

OIL ANALYSIS REPORT

(YA144044) 3803C

Diesel Engine

PETRO CANADA DURON SHP 15W40 (8 GAL)

Sample Rating Trend **DEGRADATION**

DIAGNOSIS

Recommendation

The oil is near the end of it's useful service life. recommend schedule an oil change. We recommend an early resample to monitor this condition.

Wear

The lead level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the

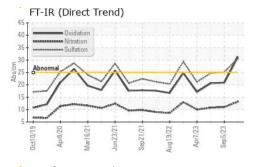
Fluid Condition

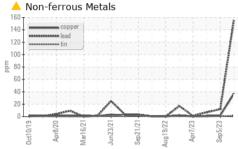
The BN level is low. The condition of the oil is acceptable for the time in service.

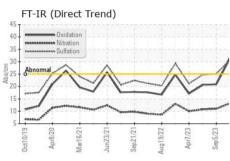
NL)						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0115944	GFL0074446	GFL0080594
Sample Date		Client Info		18 Jun 2024	05 Sep 2023	20 Jul 2023
Machine Age	hrs	Client Info		47607	47607	47607
Oil Age	hrs	Client Info		0	47607	47607
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				ABNORMAL	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	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>165	44	16	12
Chromium	ppm	ASTM D5185m	>5	2	2	1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	6	2	2
_ead	ppm	ASTM D5185m	>150	156	12	7
Copper	ppm	ASTM D5185m	>90	37	2	1
Γin	ppm	ASTM D5185m	>5	2	<1	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	17	6	8
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum	ppm	ASTM D5185m	60	58	58	59
Manganese	ppm	ASTM D5185m	0	2	<1	<1
Magnesium	ppm	ASTM D5185m	1010	757	757	717
Calcium	ppm	ASTM D5185m	1070	1716	1525	1729
Phosphorus	ppm	ASTM D5185m	1150	970	873	891
Zinc	ppm	ASTM D5185m	1270	1204	1078	1153
Sulfur	ppm	ASTM D5185m	2060	2878	3063	3330
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	10	8	7
Silicon Sodium	ppm	ASTM D5185m ASTM D5185m	>35	10 9	8 7	7
Sodium	• • • • • • • • • • • • • • • • • • • •		>35 >20			
Sodium	ppm	ASTM D5185m		9	7	6
Sodium Potassium INFRA-RED	ppm	ASTM D5185m ASTM D5185m	>20	9 3	7 9	6 <1
Sodium Potassium INFRA-RED Soot %	ppm ppm	ASTM D5185m ASTM D5185m method	>20 limit/base	9 3 current	7 9 history1	6 <1 history2
Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm	ASTM D5185m ASTM D5185m method *ASTM D7844	>20 limit/base >7.5	9 3 current 0.1	7 9 history1	6 <1 history2
Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 limit/base >7.5 >20	9 3 current 0.1 13.2	7 9 history1 0 11.0	6 <1 history2 0 10.8
Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 limit/base >7.5 >20 >30	9 3 current 0.1 13.2 30.6	7 9 history1 0 11.0 25.1	6 <1 history2 0 10.8 24.7

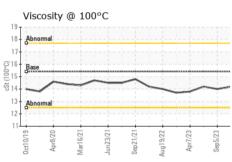


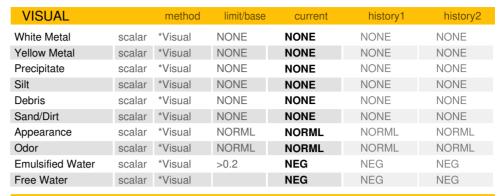
OIL ANALYSIS REPORT





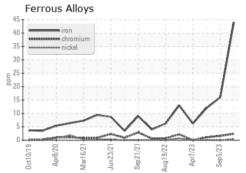


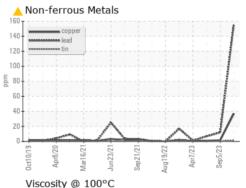


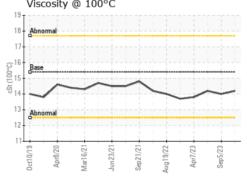


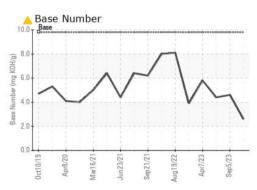
FLUID PROPI	ERITES	method	limit/base	current	history1	history
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	14.0	14.2

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0115944 Lab Number : 06214466

Unique Number : 11087330 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Jun 2024 Tested

: 20 Jun 2024 Diagnosed : 21 Jun 2024 - Don Baldridge

GFL Environmental - 018 - Fayetteville 4621 Marracco Drive

Hope Mills, NC US 28348

Contact: Robert Carter robert.carter@gflenv.com T: (910)596-1170

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