

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 414059 **Diesel Engine**

Fluid

PETRO CANADA DURON S

						V.
N SHP 15W40 (⁻		ul2023 Aug	2023 Sep2023 Oct202	23 Jan2024 Mar2024 May2	024 Jun202	
SAMPLE INFOR	RMATION		limit/base	current	history1	history2
Sample Number		Client Info		GFL0125870	GFL0118678	GFL0118690
Sample Date		Client Info		20 Jun 2024	07 Jun 2024	30 May 2024
Achine Age	hrs	Client Info		2409	2313	2257
Dil Age	hrs	Client Info		400	631	150
Dil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	SEVERE
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
uel		WC Method	>3.0	<1.0	<1.0	<1.0
Vater		WC Method	>0.2	NEG	NEG	NEG
alycol		WC Method		NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	7	7	▲ 114
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
lickel	ppm	ASTM D5185m	>5	<1	<1	<1
ītanium	ppm	ASTM D5185m	>2	<1	0	1
Silver	ppm	ASTM D5185m	>2	0	0	<1
luminum	ppm	ASTM D5185m	>20	4	2	9 19
ead	ppm	ASTM D5185m	>40	0	0	4
Copper	ppm	ASTM D5185m	>330	11	10	12
īn	ppm	ASTM D5185m	>15	<1	<1	5
/anadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	19	27	12
Barium	ppm	ASTM D5185m	0	0	0	11
lolybdenum	ppm	ASTM D5185m	60	58	60	49
langanese	ppm	ASTM D5185m	0	<1	0	2
lagnesium	ppm	ASTM D5185m	1010	973	929	567
Calcium	ppm	ASTM D5185m	1070	1254	1221	806
hosphorus	ppm	ASTM D5185m	1150	1113	1112	719
linc	ppm	ASTM D5185m	1270	1345	1254	641
Sulfur	ppm	ASTM D5185m	2060	3558	3306	3186
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	5	A 28
Sodium	ppm	ASTM D5185m		6	2	30
Potassium	ppm	ASTM D5185m	>20	7	7	34
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0.2	0.7
litration	Abs/cm	*ASTM D7624	>20	6.8	6.4	35.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	18.9	0.0

14.7

8.5

DIAGNOSIS Recommendation

Resample at the next service interval to monitor.

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.

FLUID DEGRADATION method

Base Number (BN) mg KOH/g ASTM D2896 9.8

Abs/.1mm *ASTM D7414 >25

Oxidation

32.2

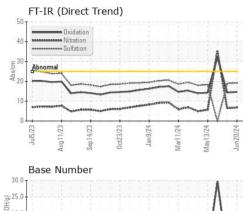
29.7

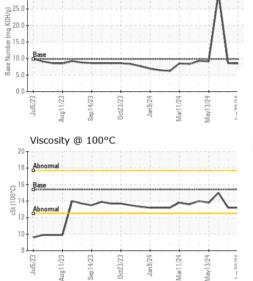
14.4

8.6



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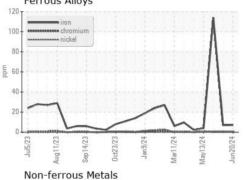


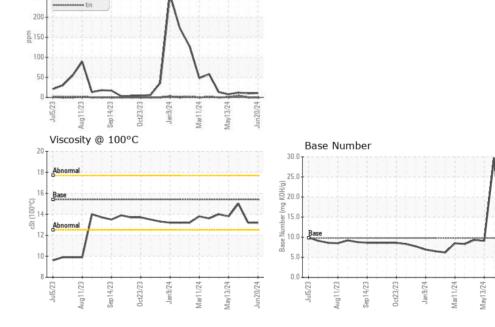
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	▲ 0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	13.2	15.0
GRAPHS						

Ferrous Alloys

300

250





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 166 - Phenix City Sample No. : GFL0125870 Received : 27 Jun 2024 18 Old Brickyard Rd Lab Number : 06222209 Tested : 28 Jun 2024 Phenix City, AL Unique Number : 11100406 Diagnosed : 28 Jun 2024 - Wes Davis US 36869 Test Package : FLEET Contact: DEAN PEACE JR Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dean.peace@gflenv.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Т: F:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: GFL166 [WUSCAR] 06222209 (Generated: 06/28/2024 10:41:29) Rev: 1

Submitted By: DARRIN WRIGHT

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