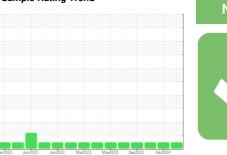


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id Component

811010 **Diesel Engine**

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

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

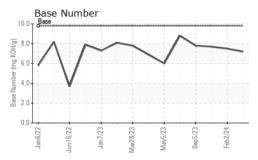
Fluid Condition

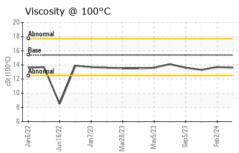
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

N SHP ISW40 (LIN)	Jan2022 Ju	un2022 Jan2023 Ma	2023 May2023 Sep2023	Feb 2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0103874	GFL0103914	GFL009736
Sample Date		Client Info		08 Feb 2024	02 Feb 2024	20 Nov 2023
Machine Age	hrs	Client Info		7398	36745	36745
Oil Age	hrs	Client Info		0	36745	36745
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	TION	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 METAL	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	15	11	39
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>5	<1	2	2
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	1	2	2
Lead	ppm	ASTM D5185m	>40	<1	2	<1
Copper	ppm	ASTM D5185m	>330	2	2	4
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	3	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	59	55
Manganese	ppm	ASTM D5185m	0	<1	1	1
Magnesium	ppm	ASTM D5185m	1010	1018	890	870
Calcium	ppm	ASTM D5185m	1070	1134	1045	1029
Phosphorus	ppm	ASTM D5185m	1150	1051	980	805
Zinc	ppm	ASTM D5185m	1270	1306	1229	1141
Sulfur	ppm	ASTM D5185m	2060	2920	2774	3078
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	6
Sodium	ppm	ASTM D5185m		4	4	3
Potassium	ppm	ASTM D5185m	>20	<1	4	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	8.0	0.7	0.6
Nitration	Abs/cm	*ASTM D7624	>20	8.0	7.6	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	19.7	19.6
FLUID DEGRA	NOITAG	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	15.1	15.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.2	7.5	7.7



OIL ANALYSIS REPORT

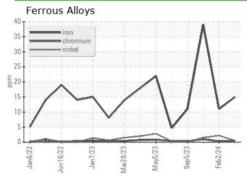


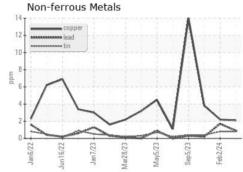


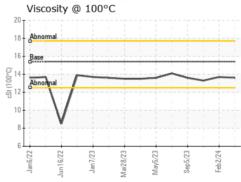
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

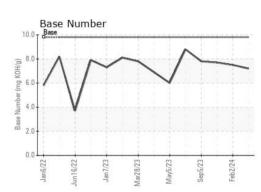
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.7	13.3

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number : 06089335 Unique Number : 10876780 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0103874

Tested Diagnosed

Received : 14 Feb 2024 : 15 Feb 2024 : 15 Feb 2024 - Wes Davis

GFL Environmental - 654S - Midlothian

12230 Deergrove Road Midlothian, VA US 23112

Contact: Corbin Umphlet cumphlet@gflenv.com

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)

T:

F: