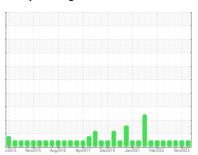


OIL ANALYSIS REPORT

Sample Rating Trend







(EIB893) Machine Id 3641

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (8 GAL)

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.

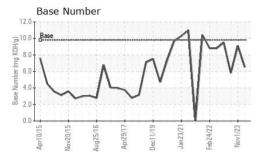
Fluid Condition

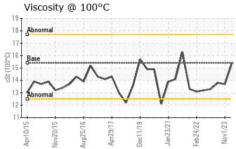
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		112015 NOV2	UTS AUGZUTS ADIZUTA	Dec2019 Jan2021 Feb2022	Nov2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0089600	GFL0083066	GFL0083038
Sample Date		Client Info		27 Feb 2024	01 Nov 2023	10 Aug 2023
Machine Age	hrs	Client Info		0	90	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	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	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	111	30	35
Chromium	ppm	ASTM D5185m	>5	2	<1	1
Nickel	ppm	ASTM D5185m	>4	4	0	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	8	5	11
Lead	ppm	ASTM D5185m	>25	3	0	15
Copper	ppm	ASTM D5185m	>100	5	0	3
Tin	ppm	ASTM D5185m	>4	<1	0	1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	8	99	18
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	94	80	68
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1109	822	473
Calcium	ppm	ASTM D5185m	1070	1343	1131	1784
Phosphorus	ppm	ASTM D5185m	1150	1188	847	1084
Zinc	ppm	ASTM D5185m	1270	1385	1087	1300
Sulfur	ppm	ASTM D5185m	2060	2760	2759	3012
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11	10	16
Sodium	ppm	ASTM D5185m		10	3	0
Potassium	ppm	ASTM D5185m	>20	6	0	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	1	0.7	1
Nitration	Abs/cm	*ASTM D7624	>20	13.9	7.0	11.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.5	20.9	25.9
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	28.4	14.8	21.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.5	9.1	5.8
(2.4)	39					



OIL ANALYSIS REPORT



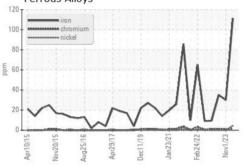


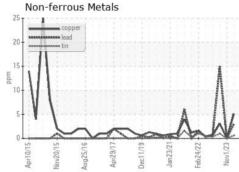
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

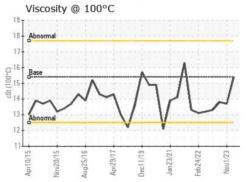
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	15.4	13.7	13.8

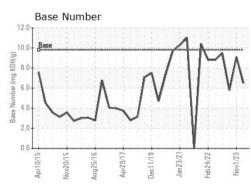
GRAPHS

Ferrous Alloys













Certificate L2367

Laboratory Sample No.

Lab Number : 06111060 Unique Number: 10914557 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0089600 Received **Tested**

: 07 Mar 2024 : 07 Mar 2024 Diagnosed : 09 Mar 2024 - Don Baldridge

GFL Environmental - 072 - Americus - Transwaste

361 McMath Mill Road Americus, GA US 31719

T: (229)924-3669

Contact: RICHARD HEINZERLING richard.heinzerling@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)

Report Id: GFL072 [WUSCAR] 06111060 (Generated: 03/09/2024 12:30:51) Rev: 1

Submitted By: George Sawyer