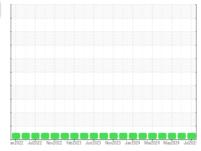


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **223029-8**

Diesel Engine

PETRO CANADA DURON SHP 15W40 (7 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

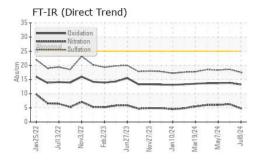
Fluid Condition

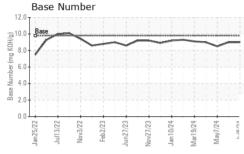
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

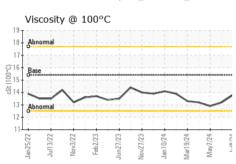
and 2022 Juli 2022 Vand 2022 Fand 2023 Vand 2023 Vand 2023 Vand 2024 Mand 2024 Mand 2024 Juli 2022 Juli 2022 Vand 2024 Juli 2022 Juli 2024 Juli 20						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0125890	GFL0118701	GFL0118662
Sample Date		Client Info		08 Jul 2024	29 May 2024	07 May 2024
Machine Age	hrs	Client Info		32849	32803	32790
Oil Age	hrs	Client Info		150	600	200
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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	>80	4	6	12
Chromium	ppm	ASTM D5185m	>5	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	2	<1	2
Lead	ppm	ASTM D5185m	>30	0	0	0
Copper	ppm	ASTM D5185m	>150	<1	0	3
Tin	ppm	ASTM D5185m	>5	0	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	1	0	10
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	61	61
Manganese	ppm	ASTM D5185m	0	0	0	1
Magnesium	ppm	ASTM D5185m	1010	965	972	999
Calcium	ppm	ASTM D5185m	1070	1096	1154	1132
Phosphorus	ppm	ASTM D5185m	1150	1045	1083	1073
Zinc	ppm	ASTM D5185m	1270	1228	1261	1285
Sulfur	ppm	ASTM D5185m	2060	2873	3567	3564
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	2	1	4
Sodium	ppm	ASTM D5185m		4	12	10
Potassium	ppm	ASTM D5185m	>20	2	0	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.5	0.6
Nitration	Abs/cm	*ASTM D7624	>20	4.8	6.3	6.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.5	18.6	18.3
FLUID DEGRAI	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.2	13.8	13.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.0	9.0	8.5



OIL ANALYSIS REPORT



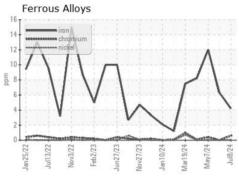


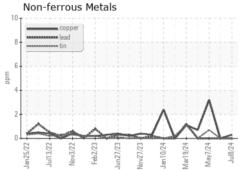


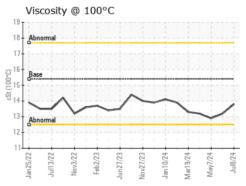
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

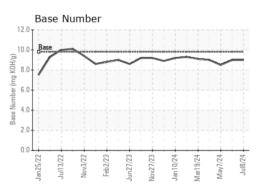
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.2	12.9

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0125890 Lab Number : 06234521 Unique Number : 11123355 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Jul 2024 **Tested**

: 12 Jul 2024 Diagnosed : 12 Jul 2024 - Wes Davis

GFL Environmental - 166 - Phenix City 18 Old Brickyard Rd

Phenix City, AL US 36869

Contact: DEAN PEACE JR dean.peace@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: