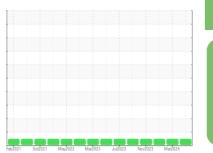


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **827035-1039**

Diesel Engine

PETRO CANADA DURON SHP 15W40 (22 QTS

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Sampled oil)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

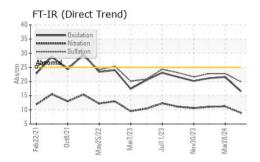
Fluid Condition

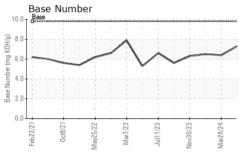
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

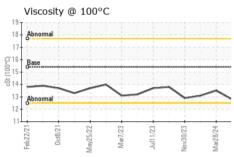
QTS)		Feb2021 0	cd2021 May2022 Mai	Ž023 Julž023 Novž023	Mar2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date Machine Age	hrs	Client Info Client Info Client Info		GFL0120868 31 May 2024 14552	GFL0110336 28 Mar 2024 14321	GFL0102766 30 Dec 2023 13857
Oil Age Oil Changed	hrs	Client Info		231 Not Changd	580 Changed	594 Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ION	method	limit/base	current	history1	history2
Fuel Water Glycol		WC Method WC Method		<1.0 NEG NEG	<1.0 NEG NEG	<1.0 NEG NEG
WEAR METALS	2	method	limit/base	current	history1	history2
Iron		ASTM D5185m	>80	19	34	29
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel Titanium	ppm	ASTM D5185m ASTM D5185m	>2	0 <1	0	0
Silver Aluminum	ppm ppm	ASTM D5185m ASTM D5185m	>3 >30	0 4	0 <1	0
Lead Copper	ppm	ASTM D5185m ASTM D5185m	>30 >150	<1 1	0 <1	<1 1
Tin Vanadium	ppm ppm	ASTM D5185m ASTM D5185m	>5	<1 0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	9	4	4
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m	60	61	59	63
Manganese Magnesium	ppm	ASTM D5185m ASTM D5185m	1010	0 837	0 949	998
Calcium	ppm	ASTM D5185m	1070	1096	1158	1138
Phosphorus	ppm	ASTM D5185m	1150	961	1020	1030
Zinc	ppm	ASTM D5185m	1270	1190	1225	1303
Sulfur	ppm	ASTM D5185m	2060	3025	3283	2947
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	3	3	3
Sodium	ppm	ASTM D5185m		2	6	6
Potassium	ppm	ASTM D5185m	>20	3	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.6	0.6
Nitration	Abs/cm	*ASTM D7624	>20	8.9	11.2	11.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	22.8	22.8
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	21.6	21.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.3	6.4	6.5



OIL ANALYSIS REPORT



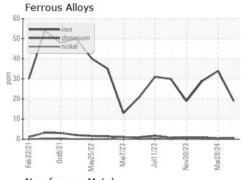


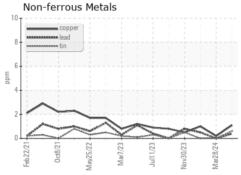


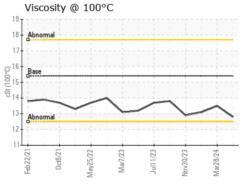
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

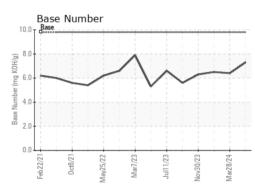
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.8	13.5	13.1

GRAPHS













Certificate 12367

Laboratory Sample No. Unique Number : 11063196

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0120868 Lab Number : 06201073

Received : 05 Jun 2024 **Tested** : 06 Jun 2024 Diagnosed

: 09 Jun 2024 - Don Baldridge

GFL Environmental - 622 - Traverse City Hauling

160 Hughes Dr Traverse City, MI US 49686

Contact: GARY BREWER

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: