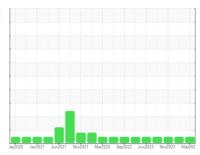


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **827013-1029**

Diesel Engine

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

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

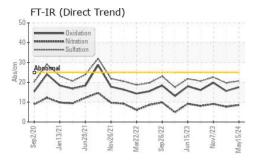
Fluid Condition

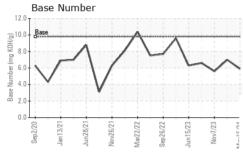
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

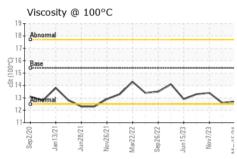
_TR) imp2020 Jun2021 Jun2021 Nov2021 Mu2022 Sup2022 Jun2023 Nov2023 Muy202						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0077725	GFL0077757	GFL0077783
Sample Date		Client Info		15 May 2024	25 Jan 2024	07 Nov 2023
Machine Age	hrs	Client Info		15846	15183	14687
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Changed
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	>120	18	14	30
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	1	0	0
Aluminum	ppm	ASTM D5185m	>20	2	<1	2
Lead	ppm	ASTM D5185m	>40	1	<1	4
Copper	ppm	ASTM D5185m	>330	5	<1	2
Tin	ppm	ASTM D5185m	>15	1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	4	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	63	58	58
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	968	950	897
Calcium	ppm	ASTM D5185m	1070	1078	1103	1016
Phosphorus	ppm	ASTM D5185m	1150	924	921	920
Zinc	ppm	ASTM D5185m	1270	1241	1198	1230
Sulfur	ppm	ASTM D5185m	2060	2717	2645	2235
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	3	7
Sodium	ppm	ASTM D5185m		4	4	6
Potassium	ppm	ASTM D5185m		6	0	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.8	0.6	1.4
Nitration	Abs/cm	*ASTM D7624	>20	8.6	7.7	9.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7	19.7	22.6
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.6	15.6	19.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.9	7.0	5.6



OIL ANALYSIS REPORT



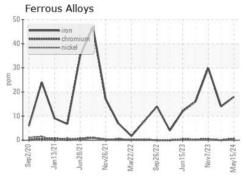


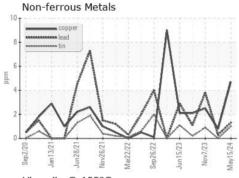


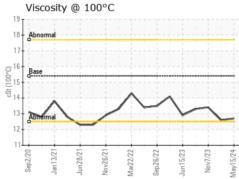
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

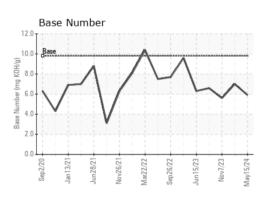
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	12.7	12.6	13.4	

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06188553

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0077725 Unique Number : 11045305

Received : 22 May 2024 **Tested** Diagnosed

: 24 May 2024 : 28 May 2024 - Don Baldridge

GFL Environmental - 650 - West Point Hauling

7825 Parham Landing Road West Point, VA US 23181

Contact: Jason Smith jasonsmith@gflenv.com T: (804)843-9288

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)

Contact/Location: Jason Smith - GFL650