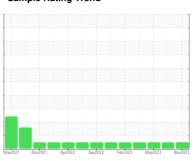


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **420033-44**

Component **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

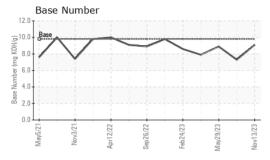
Fluid Condition

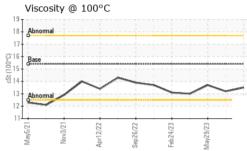
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

-In)		May2021	Nov2021 Apr2022	Sep2022 Feb2023 May2023	Nov2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0075101	GFL0091961	GFL0075095
Sample Date		Client Info		13 Nov 2023	29 Aug 2023	29 May 2023
Machine Age	hrs	Client Info		5091	4852	4247
Oil Age	hrs	Client Info		239	605	345
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	10	27	22
Chromium	ppm	ASTM D5185m	>20	<1	1	1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m		2	5	5
Lead	ppm	ASTM D5185m	>40	0	0	1
Copper	ppm	ASTM D5185m		1	4	1
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m	>10	0	0	0
Cadmium		ASTM D5185m		0	0	0
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	0	4
Barium	ppm	ASTM D5185m	0	6	0	0
Molybdenum	ppm	ASTM D5185m	60	59	61	61
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	886	967	970
Calcium	ppm	ASTM D5185m	1070	1014	1060	1083
Phosphorus	ppm	ASTM D5185m	1150	1056	1016	1074
Zinc	ppm	ASTM D5185m	1270	1170	1285	1330
Sulfur	ppm	ASTM D5185m	2060	3362	3451	3859
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	6	6
Sodium	ppm	ASTM D5185m		<1	7	6
Potassium	ppm	ASTM D5185m	>20	4	10	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.9	0.9
Nitration	Abs/cm	*ASTM D7624	>20	7.9	11.3	9.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	21.9	20.9
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	19.7	17.4
Base Number (BN)	mg KOH/g		9.8	9.1	7.3	8.9
Dage Hamber (DIV)	my Normy	AO I WI DEUJU	0.0	V. 1	7.0	0.0



OIL ANALYSIS REPORT

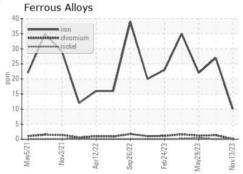


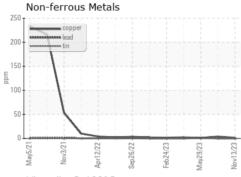


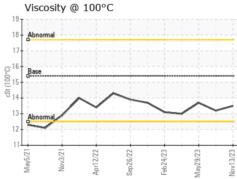
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

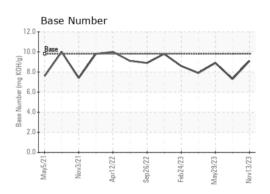
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.2	13.7

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: GFL0075101 : 06009011 : 10742773

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Nov 2023

Diagnosed : 16 Nov 2023 Diagnostician : Wes Davis

GFL Environmental - 683 - Ruckersville Hauling

261 INDUSTRIAL DR Ruckersville, VA US 22698 Contact: Jaf Finney jfinney@gflenv.com T: (434)990-4972

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)