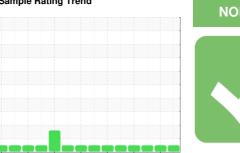


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id 922000-901

Component **Diesel Engine**

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

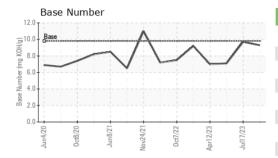
Fluid Condition

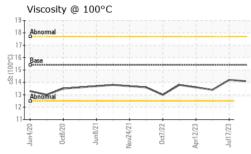
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

M SHP 15W4U (-	LIN)	Jun2020 0	ct2020 Jun2021 No	v2021 Oct2022 Apr2023	Jul2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0070906	GFL0082506	GFL0070910
Sample Date		Client Info		18 Jul 2023	17 Jul 2023	02 May 2023
Machine Age	hrs	Client Info		25193	25181	25127
Oil Age	hrs	Client Info		66	54	275
Oil Changed		Client Info		N/A	Not Changd	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
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	5	5	14
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		0	2	2
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m		7	6	46
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m	>10	<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	рріп	method	limit/base		history1	history2
Boron	ppm	ASTM D5185m	0	8	6	8
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	64	60	60
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	970	936	923
Calcium	ppm	ASTM D5185m	1070	1207	1178	1021
Phosphorus	ppm	ASTM D5185m	1150	1071	1036	1030
Zinc	ppm	ASTM D5185m	1270	1259	1297	1242
Sulfur	ppm	ASTM D5185m	2060	3845	3922	3760
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	6
Sodium	ppm	ASTM D5185m		4	2	14
Potassium	ppm	ASTM D5185m	>20	0	1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	5.5	5.4	7.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.4	18.1	17.0
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.4	13.9	14.2
Base Number (BN)	mg KOH/g			9.3	9.7	7.1
(BIV)		52000	3.0		0	



OIL ANALYSIS REPORT

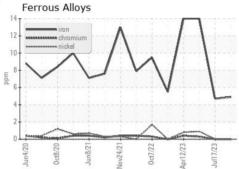


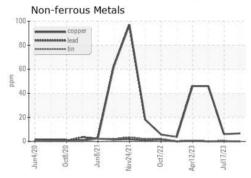


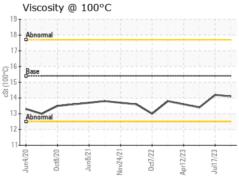
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

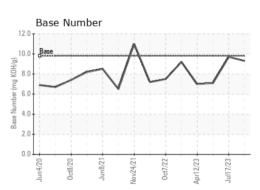
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	14.2	13.4	

GRAPHS













Certificate L2367

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0070906 : 05902061 : 10563417

Received Diagnosed Diagnostician : Wes Davis

: 19 Jul 2023 : 20 Jul 2023 GFL Environmental - 657 - Charlottesville Hauling 5498 Richmond Road

Troy, VA US 22974 Contact: Brian Ulickas

bulickas@gflenv.com T:

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: GFL657 [WUSCAR] 05902061 (Generated: 07/20/2023 19:08:42) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

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