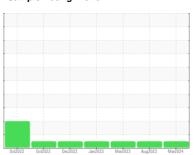


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id 912028 Component Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (--- 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

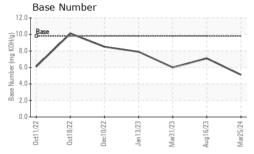
Fluid Condition

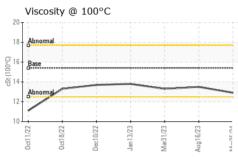
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0110194	GFL0060492	GFL0060482
Sample Date		Client Info		25 Mar 2024	16 Aug 2023	31 Mar 2023
Machine Age	hrs	Client Info		5338	3777	2718
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	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	12	8	10
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	2	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver		ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5165III	>20	2	<1	0
Lead		ASTM D5185m	>40	0	<1	<1
	ppm	ASTM D5185m	>330	4	4	10
Copper	ppm		>330	-		10
	ppm	ASTM D5185m	>15	0	<1	
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m	11 11 11	0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	0	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	54	58	60
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	901	945	862
Calcium	ppm	ASTM D5185m	1070	1040	1087	1107
Phosphorus	ppm	ASTM D5185m	1150	856	941	954
Zinc	ppm	ASTM D5185m	1270	1171	1225	1210
Sulfur	ppm	ASTM D5185m	2060	2870	3059	2538
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	4
Sodium	ppm	ASTM D5185m		4	5	3
Potassium	ppm	ASTM D5185m	>20	0	0	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.7	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	10.0	7.6	8.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	19.4	20.0
FLUID DEGRAD	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2	15.1	15.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.1	7.1	6.0



OIL ANALYSIS REPORT

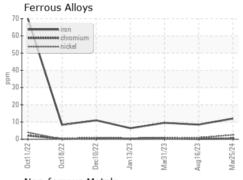


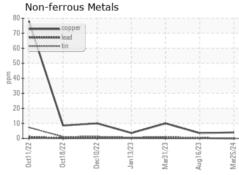


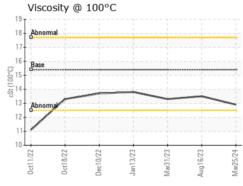
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

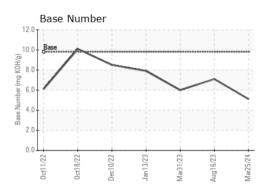
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.9	13.5	13.3

GRAPHS













Certificate L2367

Laboratory Sample No.

: GFL0110194 Lab Number : 06132663 Unique Number: 10952128 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 Mar 2024 **Tested**

: 01 Apr 2024 : 01 Apr 2024 - Wes Davis

GFL Environmental - 660 - Lynchburg Hauling

2410 Mayflower Drive Lynchburg, VA US 24501

Contact: Delbert Beasley dbeasley@countyrecycling.net T: (434)665-5998

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)

Diagnosed

F: