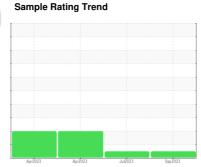


OIL ANALYSIS REPORT



Machine Id **813046** Component **Diesel Engine**

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





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

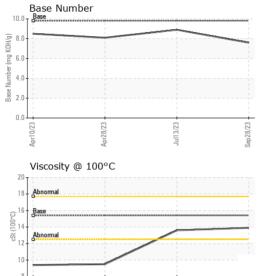
Fluid Condition

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

`		Apr202	3 Apr2023	Jul2023 S	pp2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0089538	GFL0067909	GFL0067894
Sample Date		Client Info		28 Sep 2023	13 Jul 2023	28 Apr 2023
Machine Age	hrs	Client Info		845	845	149
Oil Age	hrs	Client Info		845	279	149
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL
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
Iron	ppm	ASTM D5185m	>120	16	12	31
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	2	11
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	0	2	5
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	22	11	10
Tin	ppm	ASTM D5185m	>15	<1	1	3
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	15	413
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	62	67	128
Manganese	ppm	ASTM D5185m	0	<1	1	6
Magnesium	ppm	ASTM D5185m	1010	1010	979	691
Calcium	ppm	ASTM D5185m	1070	1087	1168	1568
Phosphorus	ppm	ASTM D5185m	1150	1015	990	697
Zinc	ppm	ASTM D5185m	1270	1288	1250	861
Sulfur	ppm	ASTM D5185m	2060	2900	3571	2623
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	13	<u>▲</u> 131
Sodium	ppm	ASTM D5185m		4	2	2
Potassium	ppm	ASTM D5185m	>20	<1	2	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.7	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.4	7.4	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	20.3	23.9
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.1	16.1	21.0
Dana Nissaalaas (DNI)	mg KOH/g	ASTM D2896	9.8	7.6	8.9	8.1
Base Number (BN)	IIIg NOH/g	ASTIVI DZ030	5.0	7.0	0.5	0.1



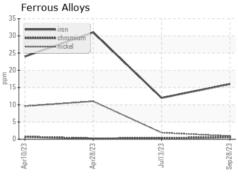
OIL ANALYSIS REPORT

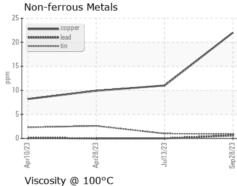


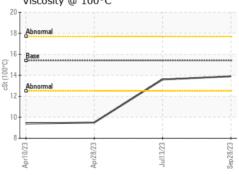
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

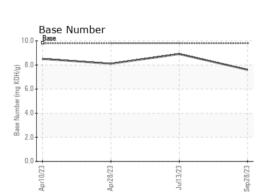
FLUID PROPE	RHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.6	<u>\$\text{\$\text{\$}}\text{\$9.5}\$</u>

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10673517 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0089538 : 05966966

Received Diagnosed

: 02 Oct 2023 : 04 Oct 2023 Diagnostician : Jonathan Hester GFL Environmental - 654S - Midlothian

12230 Deergrove Road Midlothian, VA US 23112

Contact: Corbin Umphlet

cumphlet@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)

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