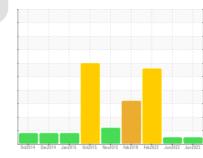


(P507246)

OIL ANALYSIS REPORT

Sample Rating Trend





10494 Component **Diesel Engine**

Fluid

PETRO CANADA DURON SHP 15W40 (32 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 INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0082205	GFL0053700	GFL0039973
Sample Date		Client Info		07 Jun 2023	24 Jun 2022	03 Feb 2022
Machine Age	hrs	Client Info		2130	143	14090
Oil Age	hrs	Client Info		2130	143	14090
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	2 .5
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	>100	77	67	1 12
Chromium	ppm	ASTM D5185m	>20	9	2	3
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	17	35	57
Lead	ppm	ASTM D5185m	>40	<1	<1	2
Copper	ppm	ASTM D5185m	>330	4	14	24
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	14	35	27
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	68	73
Manganese	ppm	ASTM D5185m	0	1	<1	1
Magnesium	ppm	ASTM D5185m	1010	917	825	810
Calcium	ppm	ASTM D5185m	1070	1180	1153	1338
Phosphorus	ppm	ASTM D5185m	1150	1005	1011	949
Zinc	ppm	ASTM D5185m	1270	1259	1231	1056
Sulfur	ppm	ASTM D5185m	2060	3694	3074	2257
Lithium	ppm	ASTM D5185m				
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	20	6	9
Sodium	ppm	ASTM D5185m		5	3	3
Potassium	ppm	ASTM D5185m	>20	26	78	150
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.4	1.9	3 .6
Nitration	Abs/cm	*ASTM D7624	>20	11.0	9.0	13.2
	Abs/.1mm	*ASTM D7415		22.0	22.7	27.6
Sulfation	AUS/.111111	AUTIVI DI TIJ	200	22.0	<u> </u>	27.0

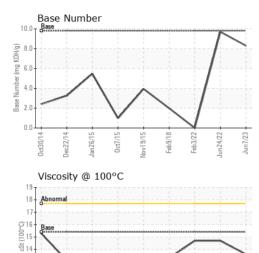


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Dct30/14

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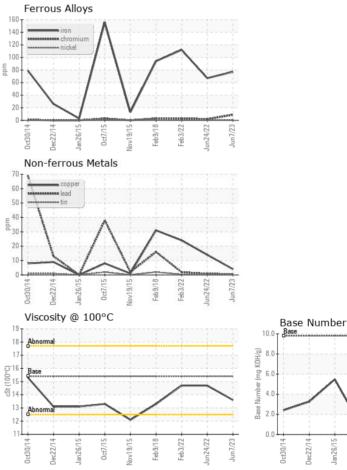
OIL ANALYSIS REPORT

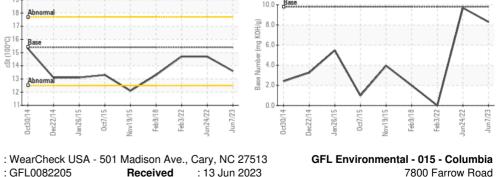


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FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.0	15.6	18.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.3	9.7	▲ 0.0
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	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	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	14.7	14.7
GRAPHS						





: 13 Jun 2023 7800 Farrow Road : 13 Jun 2023 Columbia, SC : 13 Jun 2023 - Wes Davis US 29203-3219 Contact: NOEL MATTHEWS nmatthewsjr@gflenv.com T: (803)935-0249 F: (803)935-0244



Test Package : FLEET Certificate L2367 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)

Received

Diagnosed

Tested

Laboratory Sample No.

Lab Number : 05871835

Unique Number : 10511619

: GFL0082205