

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id **812062** Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (40 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

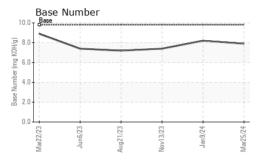
Fluid Condition

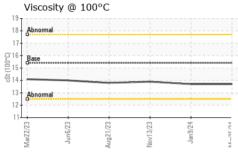
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0110746	GFL0092878	GFL0092846
Sample Date		Client Info		25 Mar 2024	09 Jan 2024	13 Nov 2023
Machine Age	hrs	Client Info		4015	3452	3065
Oil Age	hrs	Client Info		563	387	575
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	9	15
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver		ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5165III	>20	1	<1	1
Lead	ppm	ASTM D5185m	>20	0	0	1
	ppm	ASTM D5185m		1	2	7
Copper	ppm		>330		_	1
	ppm	ASTM D5185m	>15	0	<1	
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	2	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	61	58
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1022	978	985
Calcium	ppm	ASTM D5185m	1070	1210	1115	1096
Phosphorus	ppm	ASTM D5185m	1150	1069	1034	948
Zinc	ppm	ASTM D5185m	1270	1272	1250	1241
Sulfur	ppm	ASTM D5185m	2060	3451	2968	2542
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	3	3
Sodium	ppm	ASTM D5185m		4	3	5
Potassium	ppm	ASTM D5185m	>20	4	1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.8	0.6	1
Nitration	Abs/cm	*ASTM D7624	>20	8.0	6.8	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	19.3	20.7
FLUID DEGRAD	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	14.2	15.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.9	8.2	7.4
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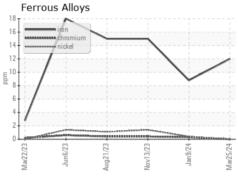


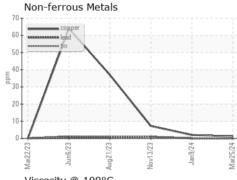


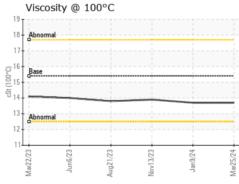
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

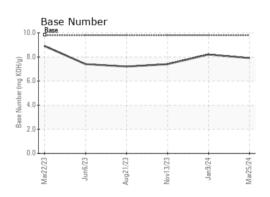
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.7	13.9

GRAPHS













Certificate L2367

Laboratory Sample No.

Test Package : FLEET

: GFL0110746 Lab Number : 06135470 Unique Number : 10954935

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 01 Apr 2024 **Tested**

: 02 Apr 2024 Diagnosed : 02 Apr 2024 - Wes Davis

GFL Environmental - 411 - Kingsford HC

1001 E Blvd Kingsford, MI US 49802

Contact: Service Manager

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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