

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id 925053 Component Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (--- QTS

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

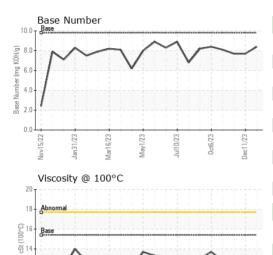
Fluid Condition

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

N SHP 15W40 (-	QTS)	ov2022 Ja	n2023 Mar2023 Mar	/2023 Jul2023 Oct2023	Dec2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0097168	GFL0097175	GFL009714
Sample Date		Client Info		22 Dec 2023	11 Dec 2023	05 Dec 2023
Machine Age	hrs	Client Info		19597	19447	19352
Oil Age	hrs	Client Info		150	582	487
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
-uel		WC Method	>3.0	<1.0	<1.0	<1.0
Vater		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	4	20	15
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>5	0	1	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	3	3
_ead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	0	2	1
Γin	ppm	ASTM D5185m	>15	<1	<1	0
/anadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	3	5
Barium	ppm	ASTM D5185m	0	0	12	0
Molybdenum	ppm	ASTM D5185m	60	58	54	51
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	892	812	838
Calcium	ppm	ASTM D5185m	1070	1045	950	930
Phosphorus	ppm	ASTM D5185m	1150	966	898	947
Zinc	ppm	ASTM D5185m	1270	1129	1082	1121
Sulfur	ppm	ASTM D5185m	2060	2939	3037	2853
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	7	7
Sodium	ppm	ASTM D5185m		6	2	4
Potassium	ppm	ASTM D5185m	>20	0	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.1	0.2	0.1
Vitration	Abs/cm	*ASTM D7624	>20	5.8	6.8	6.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.1	17.5	17.3
	ATION				11.	la la La ma O
FLUID DEGRAI	JATION	method	limit/base	current	history1	nistory2
FLUID DEGRAD Oxidation	Abs/.1mm	*ASTM D7414	limit/base >25	current 13.5	13.6	history2



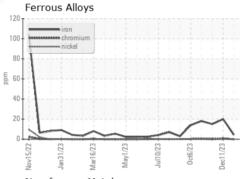
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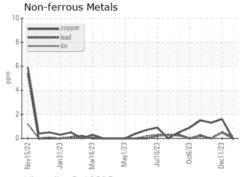


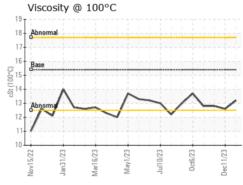
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	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

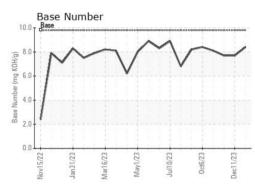
FLUID PROPE	RHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	12.6	12.8

GRAPHS













Certificate L2367

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

: GFL0097168 : 06046789

: 10807397

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 28 Dec 2023

: 28 Dec 2023 Diagnosed Diagnostician : Wes Davis

GFL Environmental - 073 - Warner Robins - Transwaste

155 Story Road Warner Robins, GA US 31093

Contact: JOSH MALONEY

jmaloney@gflenv.com T:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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.

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