

OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **4511M** 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

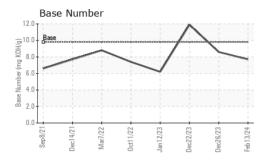
Fluid Condition

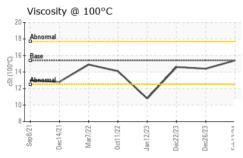
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0108922	GFL0105679	GFL0105840
Sample Date		Client Info		13 Feb 2024	26 Dec 2023	22 Dec 2023
Machine Age	hrs	Client Info		23667	2855	23667
Oil Age	hrs	Client Info		600	23280	23280
Oil Changed	1110	Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	SEVERE
			11 1.0			
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	0.2	▲ 5.4
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.10
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	51	6	40
Chromium	ppm	ASTM D5185m	>20	2	0	3
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	5	4
Lead	ppm	ASTM D5185m	>40	1	0	1
Copper	ppm	ASTM D5185m	>330	2	<1	2
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	<1	15
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	65	55	100
Manganese	ppm	ASTM D5185m	0	<1	0	0
Magnesium	ppm	ASTM D5185m	1010	1096	949	831
Calcium	ppm	ASTM D5185m	1070	1161	1105	992
Phosphorus	ppm	ASTM D5185m	1150	1160	1056	822
Zinc	ppm	ASTM D5185m	1270	1426	1227	1097
Sulfur	ppm	ASTM D5185m	2060	3222	3088	2921
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	3	23
Sodium	ppm	ASTM D5185m		10	1	<u>▲</u> 1240
Potassium	ppm	ASTM D5185m	>20	<1	0	▲ 13
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	1.8	0.2	1.9
Nitration	Abs/cm	*ASTM D7624	>20	12.4	5.6	14.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.1	18.2	24.2
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.0	14.1	21.2
	mg KOH/g	ASTM D2896	9.8	7.7	8.6	11.9
Base Number (BN)	IIIU NOI I/U	70 HVI D2000	0.0	1.1	0.0	11.5



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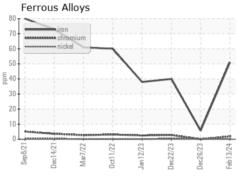


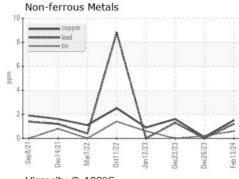


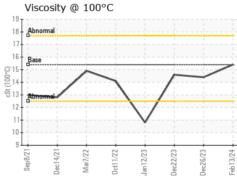
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

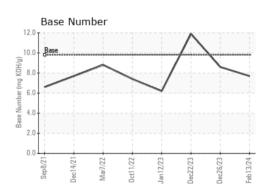
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	15.4	14.4	14.6	

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number : 06089863 Unique Number : 10882716 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0108922 Received : 15 Feb 2024 **Tested** : 16 Feb 2024

Diagnosed

: 16 Feb 2024 - Sean Felton

GFL Environmental - 415 - Michigan East

6200 Elmridge Sterling Heights, MI US 48313

Contact: Frank Wolak fwolak@gflenv.com T: (586)825-9514

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)