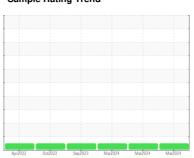


# **OIL ANALYSIS REPORT**

### Sample Rating Trend









Machine Id
593M
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (5 GAL)

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: Early sampled )

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

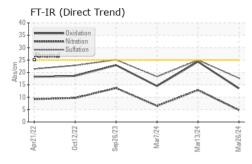
#### **Fluid Condition**

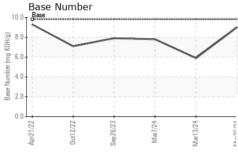
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

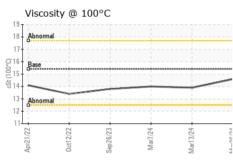
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0115077	GFL0115116	GFL0115104			
Sample Date		Client Info		26 Mar 2024	13 Mar 2024	07 Mar 2024			
Machine Age	hrs	Client Info		4704	4703	4702			
Oil Age	hrs	Client Info		0	300	506			
Oil Changed		Client Info		Not Changd	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 METALS		method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>90	4	52	2			
Chromium	ppm	ASTM D5185m		<1	2	0			
Nickel	ppm	ASTM D5185m	>2	0	<1	0			
Titanium	ppm	ASTM D5185m		0	<1	0			
Silver	ppm	ASTM D5185m	>2	0	<1	0			
Aluminum	ppm	ASTM D5185m	>20	<1	4	2			
Lead	ppm	ASTM D5185m	>40	0	<1	0			
Copper	ppm	ASTM D5185m	>330	0	2	0			
Tin	ppm	ASTM D5185m	>15	0	<1	0			
Vanadium	ppm	ASTM D5185m		0	<1	0			
Cadmium	ppm	ASTM D5185m		0	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	2	2	0			
Barium	ppm	ASTM D5185m	0	0	2	0			
Molybdenum	ppm	ASTM D5185m	60	56	61	60			
Manganese	ppm	ASTM D5185m	0	<1	<1	<1			
Magnesium	ppm	ASTM D5185m	1010	922	901	948			
Calcium	ppm	ASTM D5185m	1070	995	1144	1031			
Phosphorus	ppm	ASTM D5185m	1150	1022	1018	1025			
Zinc	ppm	ASTM D5185m	1270	1210	1223	1236			
Sulfur	ppm	ASTM D5185m	2060	3465	2934	3348			
CONTAMINAN	TS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>25	4	6	3			
Sodium	ppm	ASTM D5185m		<1	6	4			
Potassium	ppm	ASTM D5185m	>20	<1	4	0			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>6	0.1	1	0.2			
Nitration	Abs/cm	*ASTM D7624	>20	4.8	12.9	6.5			
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.7	25.0	18.3			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.6	24.3	14.5			
Base Number (BN)		ASTM D2896				7.8			
Dase Mulliber (DIN)	mg KOH/g	49 LINI D5030	9.8	9.0	5.9	7.0			

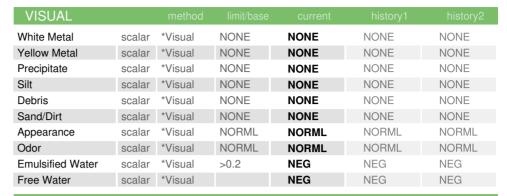


### **OIL ANALYSIS REPORT**



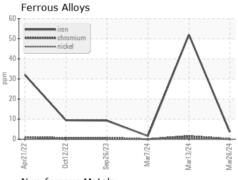


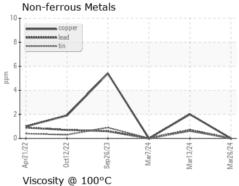


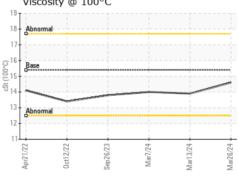


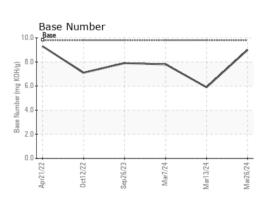
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.6	13.9	14.0

### **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number : 06136096

Test Package : FLEET

: GFL0115077 Unique Number: 10955561

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 02 Apr 2024

**Tested** : 03 Apr 2024 : 04 Apr 2024 - Don Baldridge Diagnosed

7811 Chubb Rd NORTHVILLE, MI US 48168

Contact: Anthony Hopkins ahopkins@gflenv.com

GFL Environmental - 405 - Arbor Hills

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)

T:

F: