



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(JS6351)
Machine Id
11300
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (18 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0118403	GFL0112898	GFL0088501
Sample Date		Client Info		30 May 2024	03 Apr 2024	26 Dec 2023
Machine Age	hrs	Client Info		4317	4317	4317
Oil Age	hrs	Client Info		200	238	238
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	37	20	25
Chromium	ppm	ASTM D5185m	>20	1	0	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	4	3	3
Lead	ppm	ASTM D5185m	>40	5	2	2
Copper	ppm	ASTM D5185m	>330	5	4	4
Tin	ppm	ASTM D5185m	>15	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

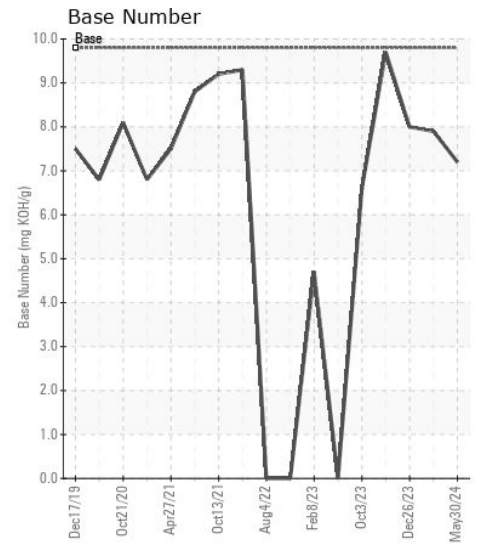
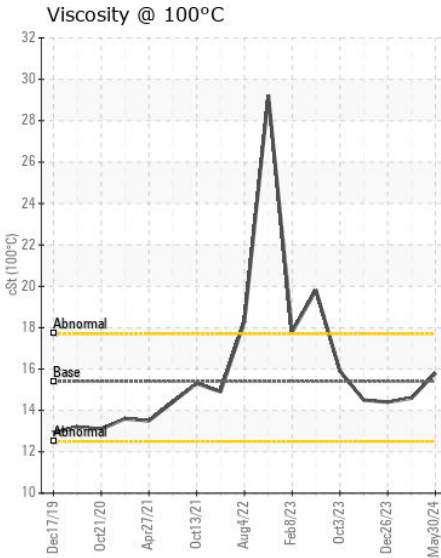
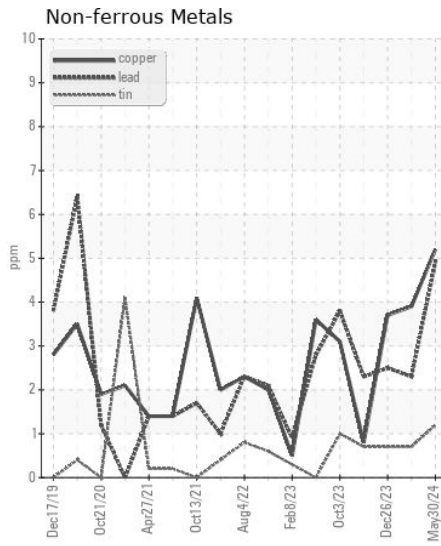
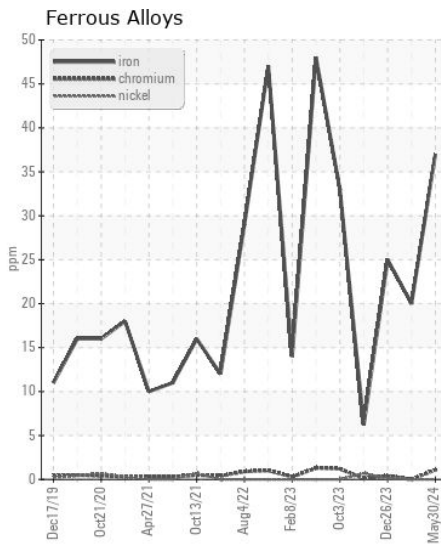
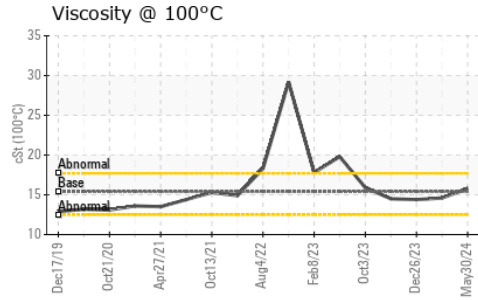
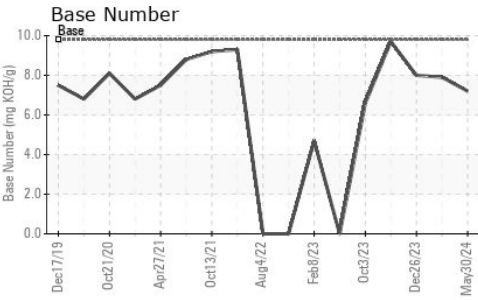
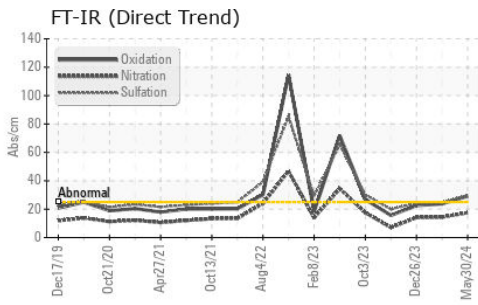
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	8	6	7
Potassium	ppm	ASTM D5185m	>20	5	3	12
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	2.6	1.8	1.9
Nitration	Abs/cm	*ASTM D7624	>20	17.5	14.4	14.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	29.7	24.7	24.3
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

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.

Sodium	ppm	ASTM D5185m		4	3	0
Boron	ppm	ASTM D5185m	0	0	2	2
Barium	ppm	ASTM D5185m	0	0	0	9
Molybdenum	ppm	ASTM D5185m	60	70	64	71
Manganese	ppm	ASTM D5185m	0	1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1139	1018	1036
Calcium	ppm	ASTM D5185m	1070	1390	1143	1237
Phosphorus	ppm	ASTM D5185m	1150	1257	1102	1068
Zinc	ppm	ASTM D5185m	1270	1520	1360	1378
Sulfur	ppm	ASTM D5185m	2060	3656	3463	2961
Oxidation	Abs/.1mm	*ASTM D7414	>25	29.2	23.8	22.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.2	7.9	8.0
Visc @ 100°C	cSt	ASTM D445	15.4	15.8	14.6	14.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : GFL0118403

Lab Number : 06195106

Unique Number : 11057229

Test Package : FLEET

Received : 30 May 2024

Tested : 31 May 2024

Diagnosed : 31 May 2024 - Angela Borella

GFL Environmental - 017 - Durham

148 Stone Park Court

Durham, NC

US 27703

Contact: William Russel

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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)