



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(D705HW)
Machine Id
2718
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (40 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0098879	GFL0098885	GFL0098865
Sample Date		Client Info		22 Apr 2024	10 Apr 2024	20 Feb 2024
Machine Age	hrs	Client Info		14595	14748	14430
Oil Age	hrs	Client Info		602	14062	14062
Filter Age	hrs	Client Info		602	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Filter Changed		Client Info		Changed	None	None
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	12	11	10
Chromium	ppm	ASTM D5185m	>5	<1	1	<1
Nickel	ppm	ASTM D5185m	>4	0	3	0
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	1	3	2
Lead	ppm	ASTM D5185m	>150	0	1	<1
Copper	ppm	ASTM D5185m	>90	0	26	<1
Tin	ppm	ASTM D5185m	>5	<1	2	0
Vanadium	ppm	ASTM D5185m		0	<1	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.

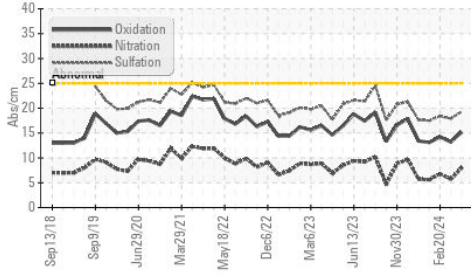
Silicon	ppm	ASTM D5185m	>35	4	7	4
Potassium	ppm	ASTM D5185m	>20	<1	6	3
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>7.5	0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.0	5.7	6.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	17.9	18.4
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

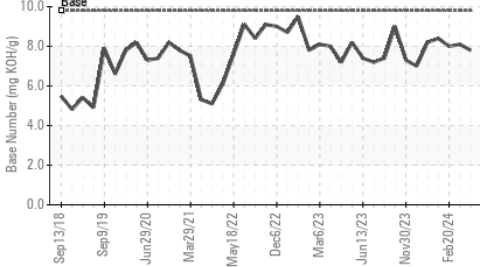
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		3	<1	6
Boron	ppm	ASTM D5185m	0	2	<1	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	57	56	57
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	1010	872	823	941
Calcium	ppm	ASTM D5185m	1070	1248	1051	1319
Phosphorus	ppm	ASTM D5185m	1150	1047	1006	1097
Zinc	ppm	ASTM D5185m	1270	1226	1106	1294
Sulfur	ppm	ASTM D5185m	2060	3427	3174	3302
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	13.2	14.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.8	8.1	8.0
Visc @ 100°C	cSt	ASTM D445	15.4	12.7	13.9	12.8

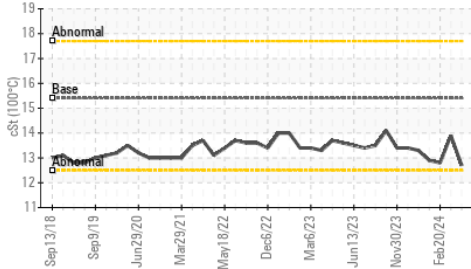
FT-IR (Direct Trend)



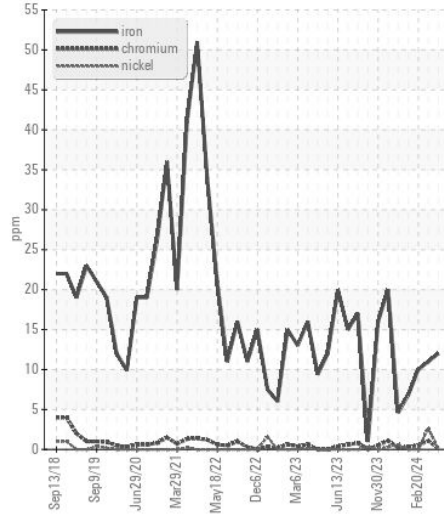
Base Number



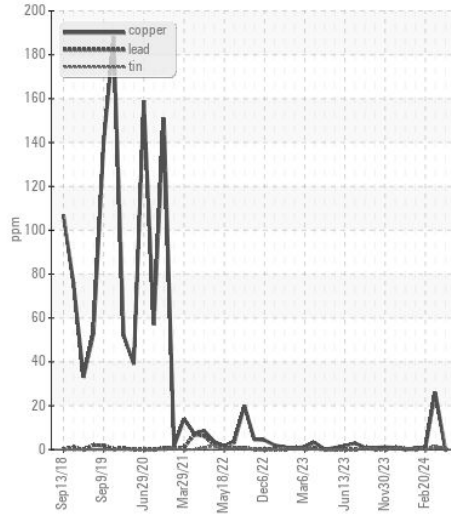
Viscosity @ 100°C



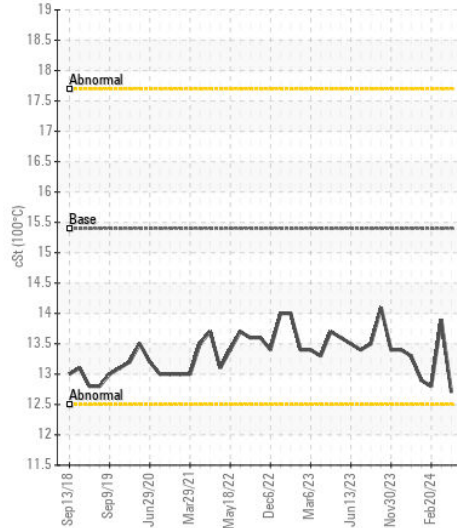
Ferrous Alloys



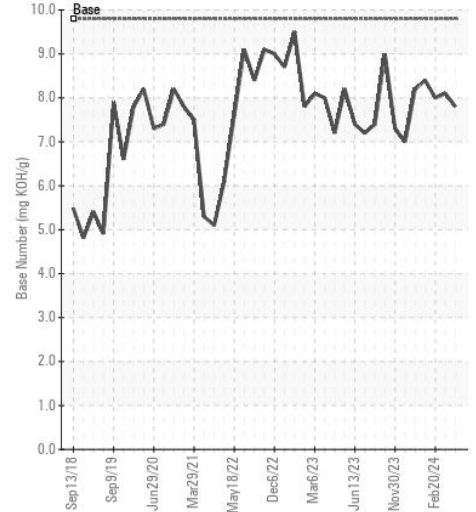
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0098879
Lab Number : 06157323
Unique Number : 10992746
Test Package : FLEET

Received : 23 Apr 2024
Tested : 24 Apr 2024
Diagnosed : 24 Apr 2024 - Wes Davis

GFL Environmental - 084 - Clarksville
 699 Jack Miller Boulevard
 Clarksville, TN
 US 37042

Contact: ROBERT THIBAUT
 robert.thibault@gflenv.com

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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