



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
3773
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (30 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0115855	GFL0113710	GFL0113695
Sample Date		Client Info		01 May 2024	26 Mar 2024	29 Feb 2024
Machine Age	hrs	Client Info		15083	14952	14853
Oil Age	hrs	Client Info		9360	9229	9130
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	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	>165	22	19	12
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	1	2
Lead	ppm	ASTM D5185m	>150	2	<1	0
Copper	ppm	ASTM D5185m	>90	2	2	3
Tin	ppm	ASTM D5185m	>5	<1	0	0
Vanadium	ppm	ASTM D5185m		0	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.

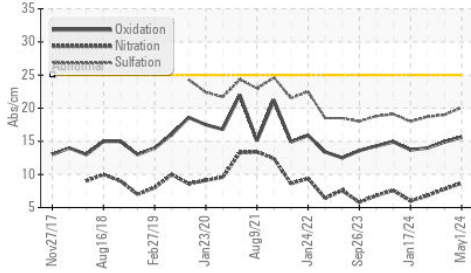
Silicon	ppm	ASTM D5185m	>35	6	6	6
Potassium	ppm	ASTM D5185m	>20	1	0	2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>7.5	0.4	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.7	7.8	6.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	19.0	18.7
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

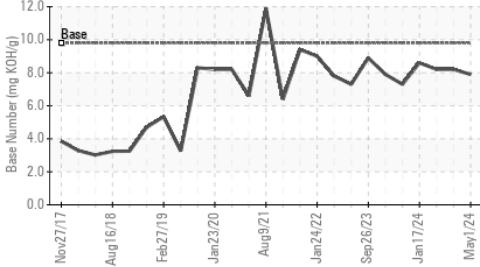
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		34	25	22
Boron	ppm	ASTM D5185m	0	7	7	9
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	65	64	70
Manganese	ppm	ASTM D5185m	0	<1	0	0
Magnesium	ppm	ASTM D5185m	1010	924	982	930
Calcium	ppm	ASTM D5185m	1070	1099	1140	1026
Phosphorus	ppm	ASTM D5185m	1150	1064	1095	990
Zinc	ppm	ASTM D5185m	1270	1243	1289	1221
Sulfur	ppm	ASTM D5185m	2060	3345	3674	2970
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	14.9	14.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.9	8.2	8.2
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	13.3	13.5

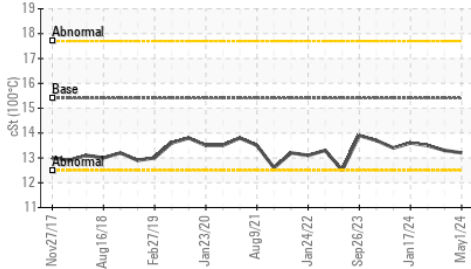
FT-IR (Direct Trend)



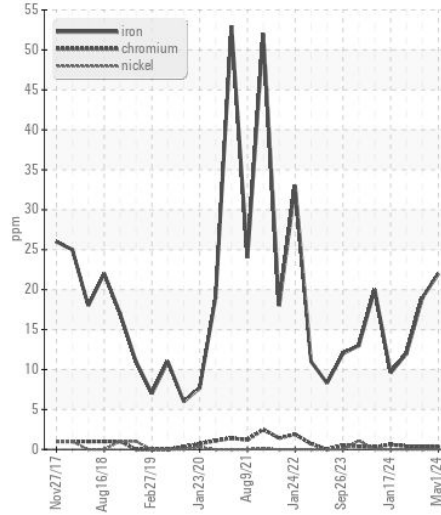
Base Number



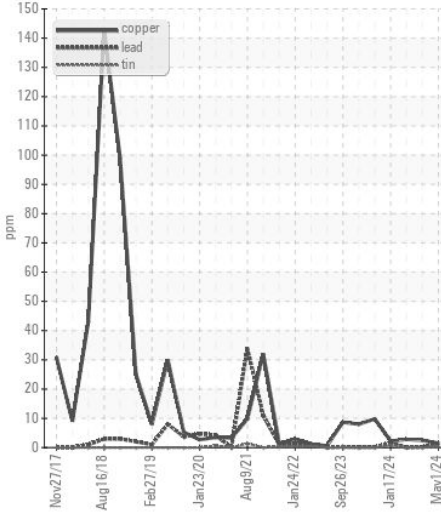
Viscosity @ 100°C



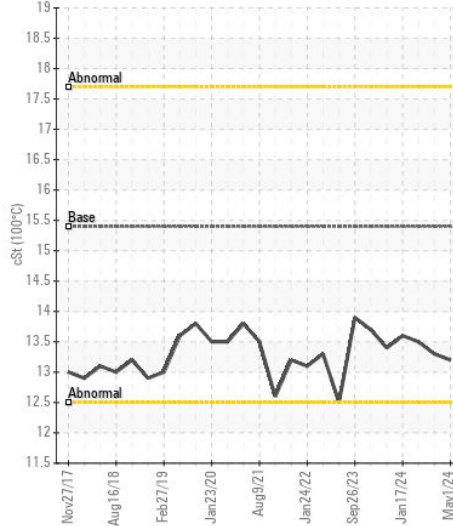
Ferrous Alloys



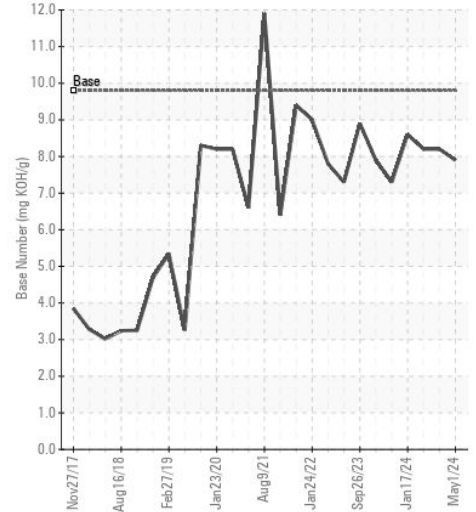
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0115855
Lab Number : 06175187
Unique Number : 11021240
Test Package : FLEET

Received : 10 May 2024
Tested : 11 May 2024
Diagnosed : 11 May 2024 - Wes Davis

GFL Environmental - 868 - Childersburg Fines Hauling (Alpine)
 13737 Plant Rd
 Childersburg, AL
 US 35044

Contact: JONATHAN WILLIAMS
 jonathan.williams@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)

T:
F: