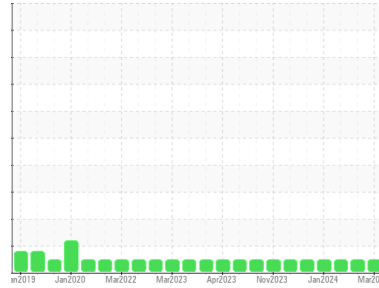




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
(78J6TV)
 Machine Id
727102-361673

Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (8 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

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 INFORMATION

method	limit/base	current	history1	history2	
Sample Number	Client Info	GFL0112189	GFL0065483	GFL0065489	
Sample Date	Client Info	29 Mar 2024	01 Mar 2024	08 Jan 2024	
Machine Age	hrs	Client Info	14276	19141	19008
Oil Age	hrs	Client Info	600	150	150
Oil Changed	Client Info	Changed	Not Changd	Not Changd	
Sample Status		NORMAL	NORMAL	NORMAL	

CONTAMINATION

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 >75	22	19	20
Chromium	ppm ASTM D5185m >5	<1	1	1
Nickel	ppm ASTM D5185m >4	0	0	0
Titanium	ppm ASTM D5185m >2	0	0	0
Silver	ppm ASTM D5185m >2	0	0	0
Aluminum	ppm ASTM D5185m >15	2	2	3
Lead	ppm ASTM D5185m >25	0	<1	<1
Copper	ppm ASTM D5185m >100	0	<1	1
Tin	ppm ASTM D5185m >4	0	0	<1
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	<1
Barium	ppm ASTM D5185m 0	0	0	0
Molybdenum	ppm ASTM D5185m 60	66	70	65
Manganese	ppm ASTM D5185m 0	<1	0	<1
Magnesium	ppm ASTM D5185m 1010	971	995	1016
Calcium	ppm ASTM D5185m 1070	1089	1033	1055
Phosphorus	ppm ASTM D5185m 1150	1074	1028	1071
Zinc	ppm ASTM D5185m 1270	1268	1280	1313
Sulfur	ppm ASTM D5185m 2060	3335	2904	3183

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	4	5	6
Sodium	ppm ASTM D5185m	29	37	43
Potassium	ppm ASTM D5185m >20	16	21	23

INFRA-RED

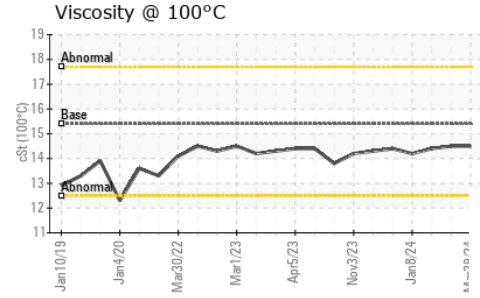
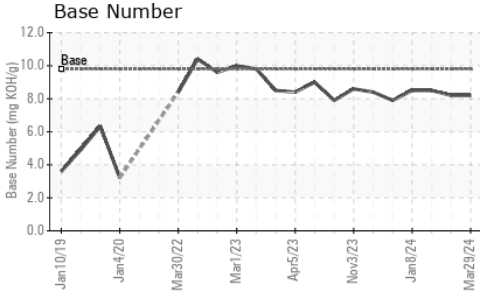
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >6	0.7	0.6	0.7
Nitration	Abs/cm *ASTM D7624 >20	9.6	8.8	9.6
Sulfation	Abs/.1mm *ASTM D7415 >30	21.6	21.1	21.4

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	17.9	16.8	17.0
Base Number (BN)	mg KOH/g ASTM D2896 9.8	8.2	8.2	8.5



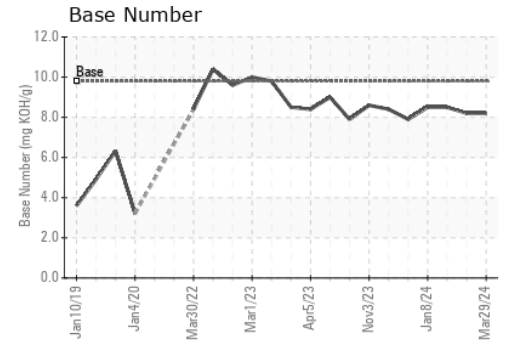
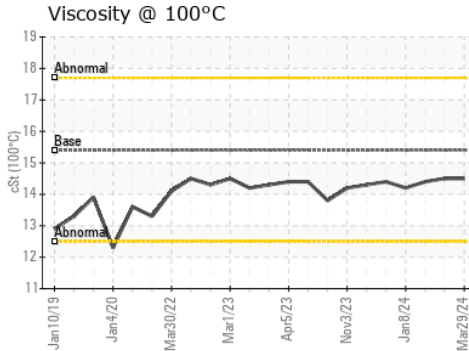
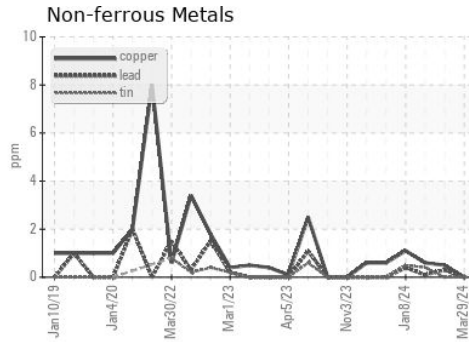
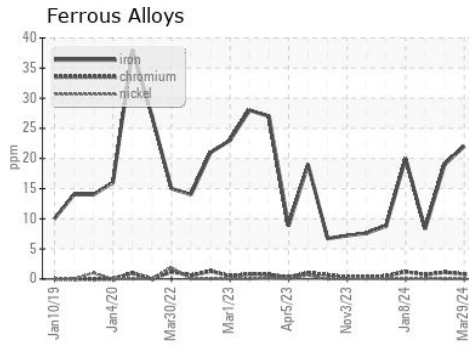
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.5	14.4

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : GFL0112189
 Lab Number : 06136064
 Unique Number : 10955529
 Test Package : FLEET

Received : 02 Apr 2024
 Tested : 03 Apr 2024
 Diagnosed : 03 Apr 2024 - Wes Davis

GFL Environmental - 829 - Wilco Hauling
 5054 Highway HH
 Hartville, MO
 US 65667

Contact: James Jones
 james.jones@gflenv.com

T: (417)349-5006

F:

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)