



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
429022-1227
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

(Customer Sample Comment: Services completed)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0116292	GFL0094888	GFL0094868
Sample Date		Client Info		17 May 2024	08 Feb 2024	08 Dec 2023
Machine Age	hrs	Client Info		10638	10058	9829
Oil Age	hrs	Client Info		585	237	584
Filter Age	hrs	Client Info		585	237	584
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

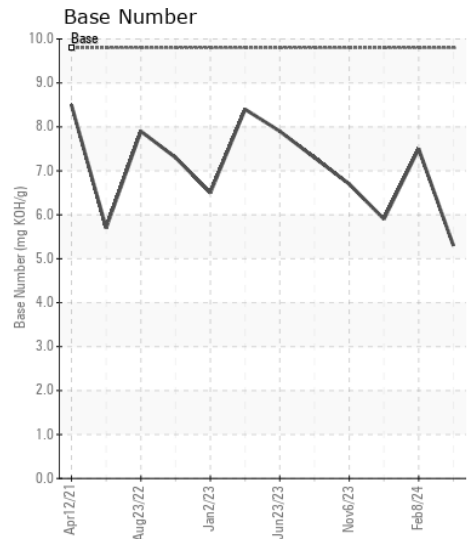
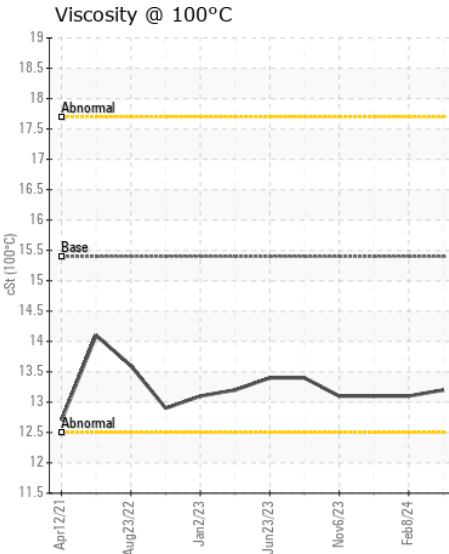
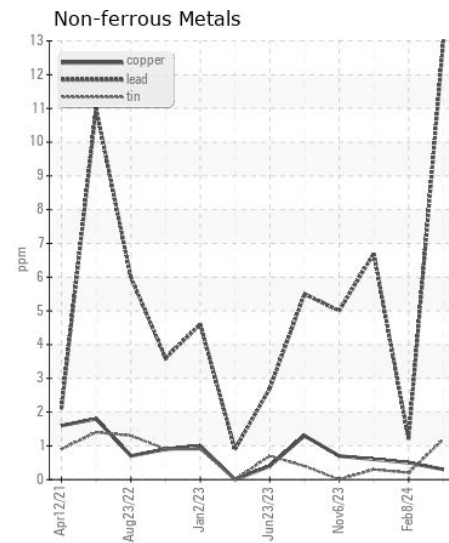
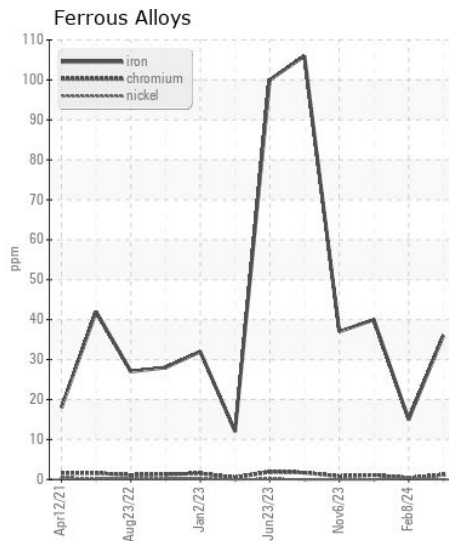
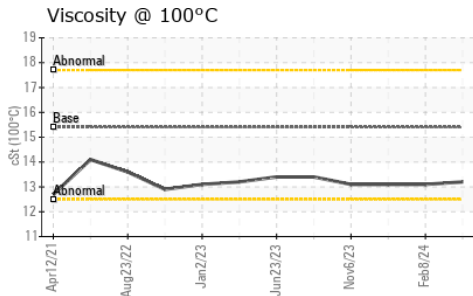
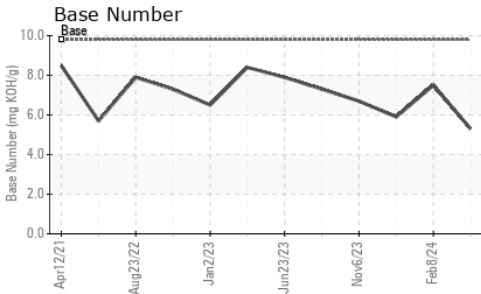
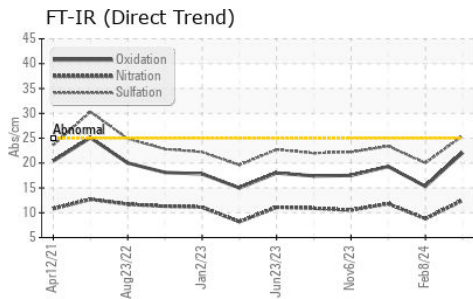
Iron	ppm	ASTM D5185m	>100	36	15	40
Chromium	ppm	ASTM D5185m	>20	1	<1	1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	15	10	6
Lead	ppm	ASTM D5185m	>40	13	1	7
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

Silicon	ppm	ASTM D5185m	>25	5	3	4
Potassium	ppm	ASTM D5185m	>20	25	19	12
Fuel		WC Method	>2.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	1.3	0.4	0.6
Nitration	Abs/cm	*ASTM D7624	>20	12.5	8.8	11.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.5	20.0	23.4
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

Sodium	ppm	ASTM D5185m		5	3	4
Boron	ppm	ASTM D5185m	0	7	5	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	69	61	63
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	986	923	945
Calcium	ppm	ASTM D5185m	1070	1143	1033	1045
Phosphorus	ppm	ASTM D5185m	1150	1099	1056	1024
Zinc	ppm	ASTM D5185m	1270	1308	1276	1250
Sulfur	ppm	ASTM D5185m	2060	3271	3080	3119
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.1	15.3	19.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.3	7.5	5.9
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	13.1	13.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0116292
Lab Number : 06187146
Unique Number : 11043898
Test Package : FLEET

Received : 21 May 2024
Tested : 23 May 2024
Diagnosed : 23 May 2024 - Sean Felton

GFL Environmental - 625 - Harrison Hauling
 2480 S Clare Ave
 Clare, MI
 US 48617
 Contact: Glenda Standen
 gstanden@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)