

OIL ANALYSIS REPORT

Sample Rating Trend



814000 Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (38 QTS)

(YA154651) GFL035

SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0116500	GFL0102306	GFL0071552
Sample Date		Client Info		05 Jun 2024	22 Dec 2023	21 Jun 2023
Machine Age	hrs	Client Info		13168	13168	13168
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	TION	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 META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	3	2	6
Chromium	ppm	ASTM D5185m	>20	<1	0	2
Nickel	ppm	ASTM D5185m	>15	0	0	1
Titanium	ppm	ASTM D5185m	>2	<1	0	2
Silver	ppm	ASTM D5185m	>3	0	0	1
Aluminum	ppm	ASTM D5185m	>20	4	<1	6
Lead	ppm	ASTM D5185m	>40	0	0	5
Copper	ppm	ASTM D5185m	>330	3	3	3
Tin	ppm	ASTM D5185m	>15	<1	0	2
Vanadium	ppm	ASTM D5185m		0	0	1
Cadmium	ppm	ASTM D5185m		0	0	2
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	2	6
Barium	ppm	ASTM D5185m	0	1	0	18
Molybdenum	ppm	ASTM D5185m	60	62	46	47
Manganese	ppm	ASTM D5185m	0	0	0	2
Magnesium	ppm	ASTM D5185m	1010	901	847	671
Calcium	ppm	ASTM D5185m	1070	1126	979	813
Phosphorus	ppm	ASTM D5185m	1150	951	855	755
Zinc	ppm	ASTM D5185m	1270	1226	1105	911
Sulfur	ppm	ASTM D5185m	2060	3292	2840	2758
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	2	5
Sodium	ppm	ASTM D5185m		0	2	4
Potassium	ppm	ASTM D5185m	>20	4	0	8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.1	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	6.6	7.2	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.2	17.4	18.4
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0	14.4	15.0

DIAGNOSIS Recommendation

Resample at the next service interval to monit

Area

Wear

All component wear rates are normal.

Contamination

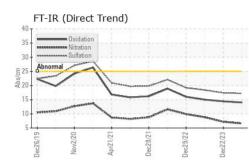
There is no indication of any contamination in the oil.

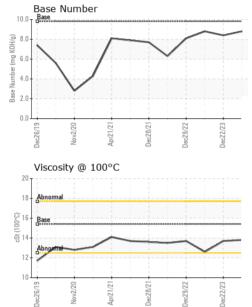
Fluid Condition

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



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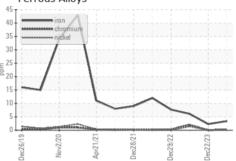
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.7	12.6
GRAPHS						

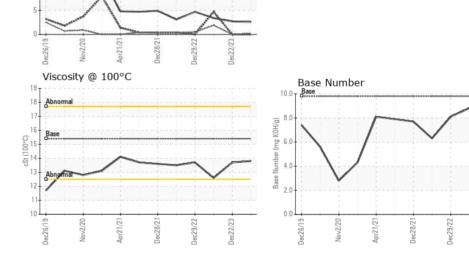
Ferrous Alloys

Non-ferrous Metals

25

20 15





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 035 - Greensboro Sample No. : GFL0116500 Received : 06 Jun 2024 1236 Elon Place Lab Number : 06201356 Tested : 07 Jun 2024 High Point, NC US 27263 Unique Number : 11063479 Diagnosed : 07 Jun 2024 - Wes Davis Test Package : FLEET Contact: JORGE COSTA Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. jorge.costa@gflenv.com T: (336)668-3712 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. F:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: JORGE COSTA Page 2 of 2

Dec22/23