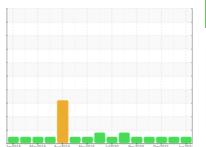


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **728045-361691**

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- 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

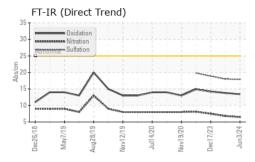
Fluid Condition

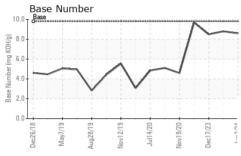
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

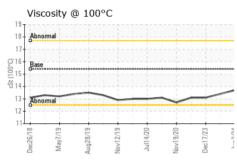
GAL)		Jec2018 Ma	y2019 Aug2019 Nov20	19 Jul2020 Nov2020 Dec20	23 Jun ² 02 ⁴	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0108011	GFL0107999	GFL0065746
Sample Date		Client Info		03 Jun 2024	06 Mar 2024	17 Dec 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		200	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	15	11	15
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	2
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	2	8
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	59	61
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	970	889	1014
Calcium	ppm	ASTM D5185m	1070	1081	1000	1113
Phosphorus	ppm	ASTM D5185m	1150	1048	1000	1034
Zinc	ppm	ASTM D5185m	1270	1257	1176	1285
Sulfur	ppm	ASTM D5185m	2060	3553	3239	3173
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	5	6
Sodium	ppm	ASTM D5185m		4	4	6
Potassium	ppm	ASTM D5185m	>20	3	7	11
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	6.5	6.8	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.9	18.0	18.9
FLUID DEGRAD	NOITA	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.4	13.8	14.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	8.8	8.5

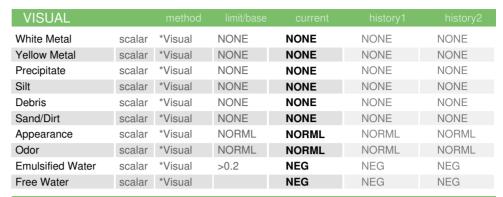


OIL ANALYSIS REPORT



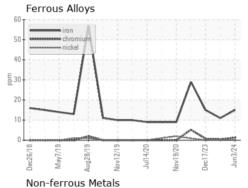


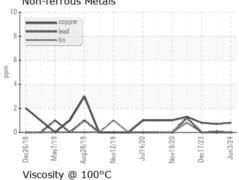


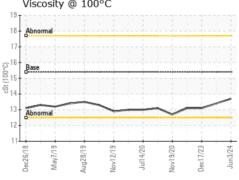


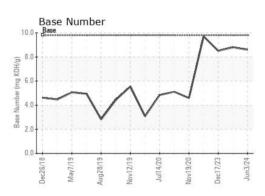
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.4	13.1

GRAPHS













Laboratory Sample No.

: GFL0108011 Lab Number : 06211106 Unique Number : 11083970 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received **Tested** Diagnosed

: 14 Jun 2024 : 19 Jun 2024 : 19 Jun 2024 - Wes Davis

GFL Environmental - 823 - Central Missouri Hauling 24461 Oak Grove Lane Sedalia, MO

US 65301 Contact: Terry Randolph trandolph@gflenv.com

T: (660)631-2116

Certificate 12367

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)