

OIL ANALYSIS REPORT

Area (64834P) 3772

Diesel Engine

PETRO CANADA DURON SHP 15W40 (10 GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

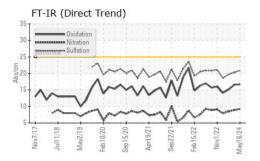
Fluid Condition

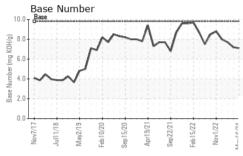
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

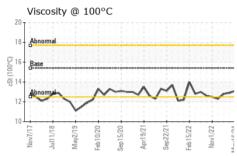
GAL)		v2017 Jul201	8 May2019 Feb2020 Sep21	020 Apr2021 Sep2021 Feb2022 N	ovž022 Mayžť	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0113938	GFL0093756	GFL0079031
Sample Date		Client Info		16 May 2024	02 Nov 2023	09 Aug 2023
Machine Age	hrs	Client Info		13907	12900	12343
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	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 METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>165	14	15	14
Chromium	ppm	ASTM D5185m	>5	2	1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	1	2	3
Lead	ppm	ASTM D5185m	>150	2	5	2
Copper	ppm	ASTM D5185m	>90	1	2	2
Tin	ppm		>5	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	6	3	6
Barium	ppm	ASTM D5185m	0	0	5	0
Molybdenum	ppm	ASTM D5185m	60	56	59	58
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	869	878	911
Calcium	ppm	ASTM D5185m	1070	1067	1058	1123
Phosphorus	ppm	ASTM D5185m	1150	972	1071	1024
Zinc	ppm	ASTM D5185m	1270	1216	1207	1274
Sulfur	ppm	ASTM D5185m		3231	3126	3595
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	6	10	11
Sodium	ppm	ASTM D5185m	00	3	2	4
Potassium	ppm	ASTM D5185m	>20	2	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.7	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	9.2	8.9	8.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	20.3	19.7
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.7	16.6	15.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.1	7.2	7.7



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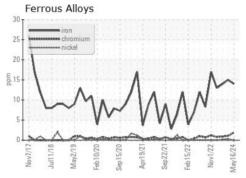


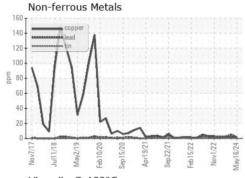


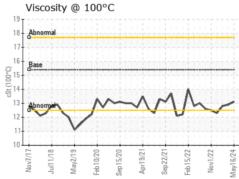
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

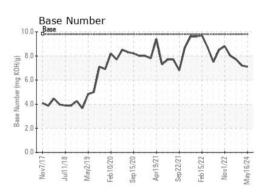
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	12.9	12.8

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0113938 Lab Number : 06188719

Test Package : FLEET

Unique Number : 11045471

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 May 2024

Tested : 24 May 2024 Diagnosed : 24 May 2024 - Wes Davis

2390 North 4th Street Wytheville, VA

GFL Environmental - 029 - Wytheville

US 24382 Contact: CHARLES CORVIN

charles.corvin@gflenv.com;canastasio@wearcheckusa.com T: (276)223-4476

* - 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) F: (276)223-1283

Report Id: GFL029 [WUSCAR] 06188719 (Generated: 05/24/2024 12:56:02) Rev: 1

Submitted By: CHARLES CORVIN