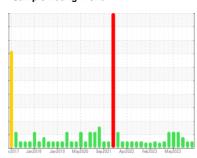


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 10690 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (7 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.

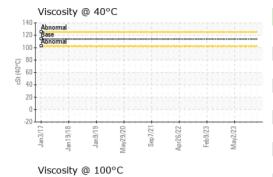
Fluid Condition

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

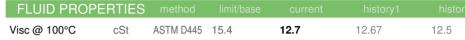
n2017 Jan2018 Jan2019 May2020 Sap2021 Apr2022 Feb2023 May2023								
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		GFL0086154	GFL0083224	GFL0083245		
Sample Date		Client Info		15 Jul 2023	22 Jun 2023	06 Jun 2023		
Machine Age	hrs	Client Info		19114	18982	18829		
Oil Age	hrs	Client Info		765	1215	480		
Oil Changed		Client Info		Not Changd	Not Changd	Changed		
Sample Status				NORMAL	NORMAL	ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2		
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0		
Glycol		WC Method		NEG	NEG	NEG		
WEAR METAL	.S	method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>75	37	22	47		
Chromium	ppm	ASTM D5185m	>5	1	<1	1		
Nickel	ppm	ASTM D5185m	>4	0	<1	0		
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1		
Silver	ppm	ASTM D5185m	>2	0	0	0		
Aluminum	ppm	ASTM D5185m	>15	6	2	7		
Lead	ppm	ASTM D5185m	>25	0	<1	<1		
Copper	ppm	ASTM D5185m	>100	18	19	<u> </u>		
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	0	22	10		
Barium	ppm	ASTM D5185m	0	0	0	0		
Molybdenum	ppm	ASTM D5185m	60	61	63	57		
Manganese	ppm	ASTM D5185m	0	1	<1	<1		
Magnesium	ppm	ASTM D5185m	1010	810	724	749		
Calcium	ppm	ASTM D5185m	1070	1113	1089	1099		
Phosphorus	ppm	ASTM D5185m	1150	939	913	854		
Zinc	ppm	ASTM D5185m	1270	1170	1086	1109		
Sulfur	ppm	ASTM D5185m	2060	3337	2894	2911		
CONTAMINAN	ITS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	6	5	7		
Sodium	ppm	ASTM D5185m		4	0	9		
Potassium	ppm	ASTM D5185m	>20	1	<1	1		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>6	1.8	1	1.8		
Nitration	Abs/cm	*ASTM D7624	>20	7.9	6.3	8.2		
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	18.7	20.6		
FLUID DEGRAI	NOITAC	method	limit/base	current	history1	history2		
FLUID DEGRAI Oxidation	Abs/.1mm	*ASTM D7414	limit/base >25	current 12.3	history1 13.0	history2 12.5		

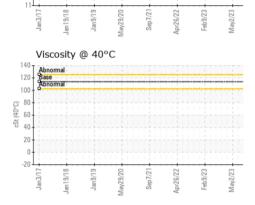


OIL ANALYSIS REPORT

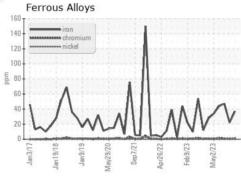


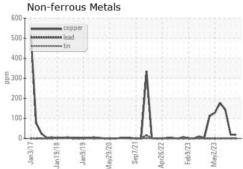
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	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

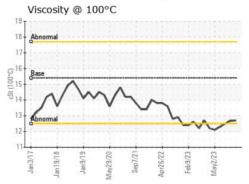


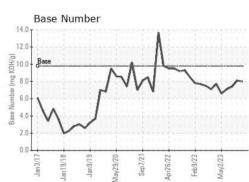


GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number**

: 10562400

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0086154 : 05901044

Received Diagnosed

: 18 Jul 2023 : 20 Jul 2023

Diagnostician : Jonathan Hester

Test Package : FLEET (Additional Tests: KV40) 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)

GFL Environmental - 010 - Stockbridge

1280 Rum Creek Parkway Stockbridge, GA US 30281

Contact: JOSHUA TINKER joshuatinker@gflenv.com

T: F: