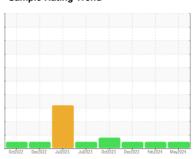


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **929108-285**

Diesel Engine

PETRO CANADA DURON SHP 15W40 (37 QTS)

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

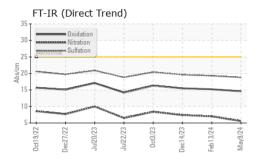
Fluid Condition

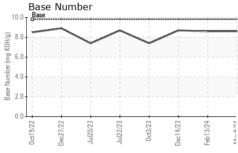
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

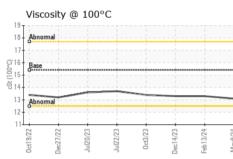
QIS)		0ct2022 [Dec2022 Jul2023 Jul202	13 Oct2023 Dec2023 Feb2024	May2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0108541	GFL0108561	GFL0066149
Sample Date		Client Info		09 May 2024	13 Feb 2024	14 Dec 2023
Machine Age	hrs	Client Info		0	12899	12370
Oil Age	hrs	Client Info		0	600	600
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	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 METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	8	7	8
Chromium	ppm	ASTM D5185m	>4	0	0	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	1	1
Lead	ppm	ASTM D5185m	>45	0	0	1
Copper	ppm	ASTM D5185m	>85	9	17	69
Tin	ppm	ASTM D5185m	>4	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	3	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	59	64
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	954	925	1044
Calcium	ppm	ASTM D5185m	1070	1105	1115	1088
Phosphorus	ppm	ASTM D5185m	1150	1025	1010	1103
Zinc	ppm	ASTM D5185m	1270	1182	1163	1314
Sulfur	ppm	ASTM D5185m	2060	3512	3196	2958
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	2	4	8
Sodium	ppm	ASTM D5185m		8	5	9
Potassium	ppm	ASTM D5185m		0	1	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.3	0.4
Nitration	Abs/cm	*ASTM D7624		5.6	7.0	7.4
Sulfation	Abs/.1mm	*ASTM D7415		18.8	19.3	19.6
FLUID DEGRAI	OITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.6	15.2	15.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	8.6	8.7



OIL ANALYSIS REPORT



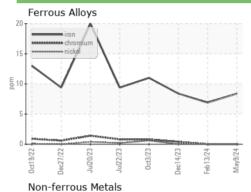


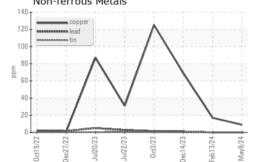


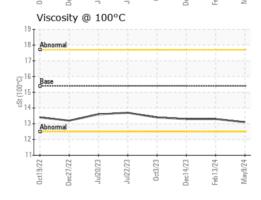
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance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

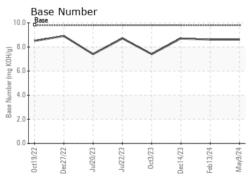
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	13.3	13.3

GRAPHS













Certificate 12367

Laboratory Sample No.

Lab Number : 06178369 Unique Number : 11029695

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0108541

Received : 14 May 2024 **Tested** Diagnosed

: 14 May 2024 : 14 May 2024 - Wes Davis

GFL Environmental - 904A - Thorpe

N14985 Tieman Ave Thorp, WI US 54771

Contact: Andy Kane akane@gflenv.com T: (715)202-3420

Test Package : FLEET 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)