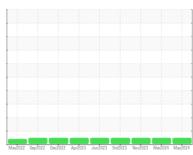


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 912062 Component

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (10 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.

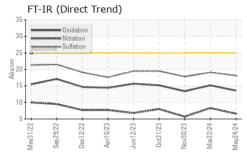
Fluid Condition

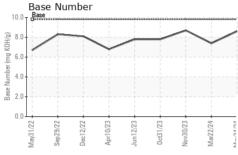
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

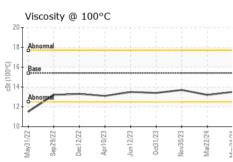
GAL)						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0095354	GFL0095356	GFL0095375
Sample Date		Client Info		24 May 2024	22 Mar 2024	30 Nov 2023
Machine Age	hrs	Client Info		4237	3964	3382
Oil Age	hrs	Client Info		270	582	154
Oil Changed		Client Info		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	7	10	6
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	3	6	3
Lead	ppm	ASTM D5185m	>45	<1	<1	0
Copper	ppm	ASTM D5185m		<1	1	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	9	4	8
Barium	ppm	ASTM D5185m		0	<1	6
Molybdenum	ppm	ASTM D5185m	60	63	59	64
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	1010	937	945	1018
Calcium	ppm	ASTM D5185m		1122	1148	1186
Phosphorus	ppm	ASTM D5185m	1150 1270	1098	1055 1238	1145 1311
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	2060	1221 3190	3128	3583
CONTAMINAN		method	limit/base	current	history1	history2
Silicon		ASTM D5185m	>30	3	4	4
Sodium	ppm	ASTM D5185m	>50	0	<1	4
Potassium	ppm	ASTM D5185m	>20	4	4	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.4	0.1
Nitration	Abs/cm	*ASTM D7624		6.6	8.3	5.7
Sulfation	Abs/.1mm	*ASTM D7415		18.1	19.1	17.8
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.6	15.2	13.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	7.4	8.7



OIL ANALYSIS REPORT



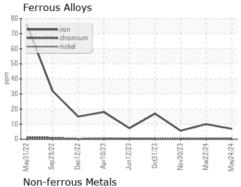


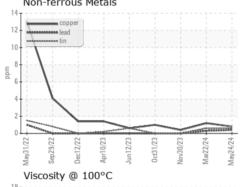


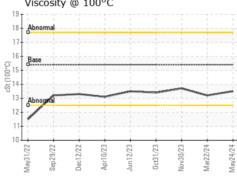
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

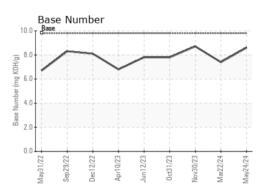
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.2	13.7

GRAPHS













Certificate 12367

Laboratory Sample No.

Test Package : FLEET

: GFL0095354 Lab Number : 06202255 Unique Number : 11069716

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Jun 2024

Tested : 10 Jun 2024 Diagnosed : 10 Jun 2024 - Wes Davis

1372 State Highway 34 MOSINEE, WI

GFL Environmental - 930 - Mosinee HC

US 54455 Contact: Kirk Koss

T: (715)571-2784

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)

Submitted By: see also GFL927, GFL930 - Kirk Koss

Report Id: GFL930 [WUSCAR] 06202255 (Generated: 06/10/2024 17:05:03) Rev: 1