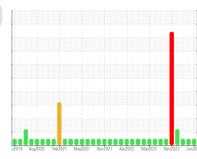


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 10978 Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (5 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.

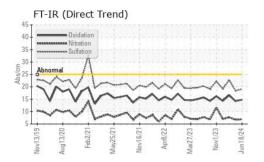
Fluid Condition

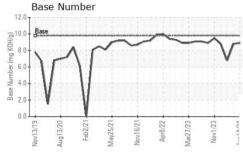
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

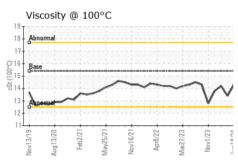
AL)		v2019 Aug20	120 Feb 2021 May 2021	Nov2021 Apr2022 Mar2023 No	v2023 Jun20	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0118404	GFL0112956	GFL0098133
Sample Date		Client Info		18 Jun 2024	04 Mar 2024	09 Jan 2024
Machine Age	hrs	Client Info		1432	1432	1432
Oil Age	hrs	Client Info		409	251	1432
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	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	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	9	10	2
Chromium	ppm	ASTM D5185m	>5	<1	0	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>15	3	3	2
Lead	ppm	ASTM D5185m	>25	<1	0	0
Copper	ppm	ASTM D5185m	>100	1	<1	0
Tin	ppm		>4	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	16	0	0
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	55	54	60
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	769	1072	988
Calcium	ppm	ASTM D5185m	1070	1196	1152	1082
Phosphorus	ppm	ASTM D5185m	1150	890	1136	1047
Zinc	ppm		1270	1100	1320	1245
Sulfur	ppm	ASTM D5185m	2060	2980	3454	3485
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	5	2
Sodium	ppm	ASTM D5185m		4	6	6
Potassium	ppm	ASTM D5185m	>20	6	8	11
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.3	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	6.9	6.7	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	18.4	22.7
FLUID DEGRA	NOITAG	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	14.2	16.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.9	8.8	6.8



OIL ANALYSIS REPORT



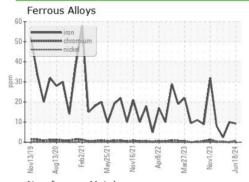


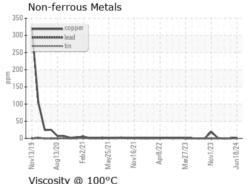


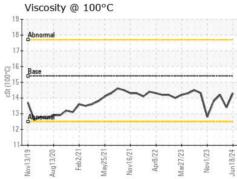
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

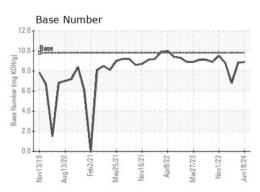
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	13.4	14.2	

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06213140 Unique Number : 11086004

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0118404

Test Package : FLEET

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

Received : 18 Jun 2024 **Tested** Diagnosed

: 19 Jun 2024

: 19 Jun 2024 - Wes Davis

GFL Environmental - 017 - Durham

148 Stone Park Court Durham, NC

US 27703 Contact:

bill.waring@wearcheck.com T: (919)596-1363

* - 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: (919)598-1852