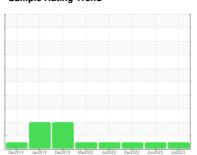


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 11197 Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (8 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

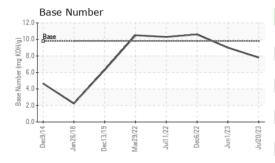
Fluid Condition

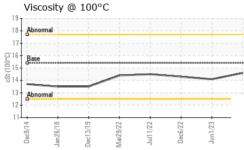
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Dec2014 Jun2018 Dec2019 Mac2022 Jun2022 Dec2022 Jun2023 Jun2023						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0083113	GFL0083182	GFL0043380
Sample Date		Client Info		20 Jul 2023	01 Jun 2023	06 Dec 2022
Machine Age	hrs	Client Info		0	0	3966
Oil Age	hrs	Client Info		0	0	600
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
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	59	35	26
Chromium	ppm	ASTM D5185m	>5	4	1	1
Nickel	ppm	ASTM D5185m	>4	2	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		9	13	11
Lead	ppm	ASTM D5185m	>25	<1	0	0
Copper	ppm	ASTM D5185m	>100	5	2	1
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	13	3	35
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	59	69
Manganese	ppm	ASTM D5185m	0	1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	866	948	872
Calcium	ppm	ASTM D5185m	1070	1441	1154	1139
Phosphorus	ppm	ASTM D5185m	1150	972	1000	978
Zinc	ppm	ASTM D5185m	1270	1179	1242	1181
Sulfur	ppm	ASTM D5185m	2060	3338	3589	3575
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	15	8	5
Sodium	ppm	ASTM D5185m		22	4	2
Potassium	ppm	ASTM D5185m	>20	<1	15	17
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	1.9	0.8	0.5
Nitration	Abs/cm	*ASTM D7624	>20	10.0	8.7	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.9	19.6	20.3
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	15.2	15.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.8	9.0	10.6
_ 430 (14111b01 (DIV)	mg nong	. 10 1111 DE000	5.0		0.0	10.0



OIL ANALYSIS REPORT

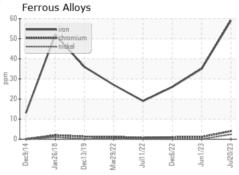


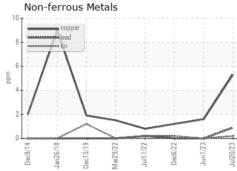


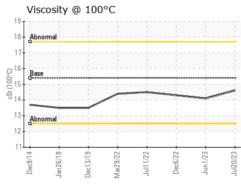
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

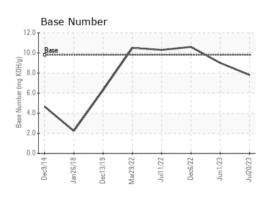
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	14.6	14.1	14.3	

GRAPHS













Certificate L2367

Laboratory

Sample No. Lab Number Unique Number : 10566527 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0083113 : 05905171

Received Diagnosed Diagnostician : Wes Davis

: 24 Jul 2023

: 24 Jul 2023

1219 Landfill Road Douglas, GA

GFL Environmental - 074 - Douglas - Transwaste

US 31533 Contact: CURTIS JACOBS

CURTIS.JACOBS@GFLENV.COM

T: (912)384-6001

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)