

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 10949 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (13 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

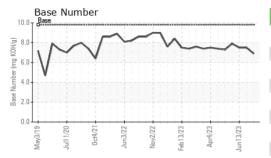
Fluid Condition

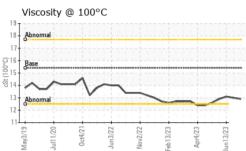
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

9/2019 Jud2020 Oct2021 Jun2022 New2022 Fee2023 Apr2023 Jun2023							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0088702	GFL0086105	GFL0083255	
Sample Date		Client Info		16 Aug 2023	26 Jul 2023	13 Jun 2023	
Machine Age	hrs	Client Info		12830	12664	12337	
Oil Age	hrs	Client Info		166	611	284	
Oil Changed		Client Info		Not Changd	Changed	Not Changd	
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	16	15	8	
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	0	
Titanium	ppm	ASTM D5185m	>2	<1	0	<1	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>15	2	1	2	
Lead	ppm	ASTM D5185m	>25	<1	0	1	
Copper	ppm	ASTM D5185m	>100	<1	0	12	
Tin	ppm	ASTM D5185m	>4	0	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	8	11	28	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	59	62	61	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	819	880	829	
Calcium	ppm	ASTM D5185m	1070	1133	1121	1183	
Phosphorus	ppm	ASTM D5185m	1150	937	993	987	
Zinc	ppm	ASTM D5185m	1270	1162	1199	1219	
Sulfur	ppm	ASTM D5185m	2060	3265	3345	3602	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	5	4	7	
Sodium	ppm	ASTM D5185m		11	11	6	
Potassium	ppm	ASTM D5185m	>20	3	0	<1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	0.6	0.6	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	7.5	7.9	6.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	18.8	18.5	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.2	13.6	14.4	
Base Number (BN)	mg KOH/g	ASTM D2896		6.9	7.5	7.5	
(214)							



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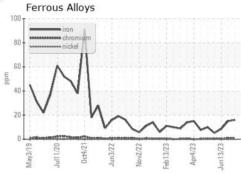


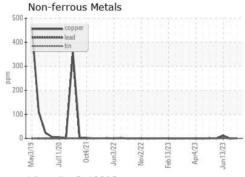


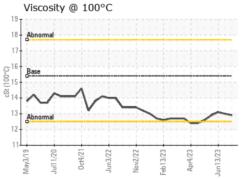
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

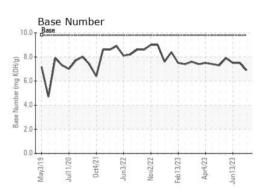
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.9	13.0	13.1

GRAPHS













Certificate L2367

Laboratory

Sample No. Lab Number : 10606945 **Unique Number** Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0088702 Received : 05926998 Diagnosed

Diagnostician : Wes Davis

: 17 Aug 2023

: 17 Aug 2023

GFL Environmental - 010 - Stockbridge

1280 Rum Creek Parkway Stockbridge, GA US 30281

Contact: JOSHUA TINKER joshuatinker@gflenv.com

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)

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