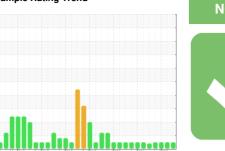


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



10605 FREIGHTLINER ISC

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (48 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

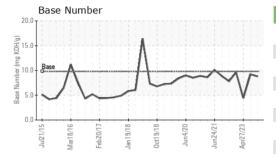
Fluid Condition

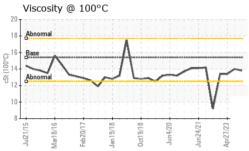
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

42015 Marž016 Feb.2017 Janž018 Oce2018 Janž020 Janž021 Aprž023							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0089298	GFL0089302	GFL0056715	
Sample Date		Client Info		15 Sep 2023	27 Jul 2023	27 Apr 2023	
Machine Age	hrs	Client Info		27997	27656	27208	
Oil Age	hrs	Client Info		789	448	904	
Oil Changed		Client Info		Changed	Not Changd	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	>90	24	15	38	
Chromium	ppm	ASTM D5185m	>20	1	<1	2	
Nickel	ppm	ASTM D5185m	>2	1	0	<1	
Titanium	ppm	ASTM D5185m	>2	<1	<1	2	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	6	5	8	
Lead	ppm	ASTM D5185m	>40	1	0	0	
Copper	ppm	ASTM D5185m	>330	3	3	5	
Tin	ppm	ASTM D5185m	>15	<1	2	<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	4	3	8	
Barium	ppm	ASTM D5185m	0	0	2	0	
Molybdenum	ppm	ASTM D5185m	60	60	64	57	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	957	1081	924	
Calcium	ppm	ASTM D5185m	1070	1126	1186	1074	
Phosphorus	ppm	ASTM D5185m	1150	1064	1171	1024	
Zinc	ppm	ASTM D5185m	1270	1276	1412	1279	
Sulfur	ppm	ASTM D5185m	2060	3062	4132	3711	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	5	6	7	
Sodium	ppm	ASTM D5185m		2	2	2	
Potassium	ppm	ASTM D5185m	>20	3	1	2	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	0.5	0.3	0	
Nitration	Abs/cm	*ASTM D7624	>20	5.7	5.3	10.2	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	17.8	19.0	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.3	13.5	17.0	
Base Number (BN)	mg KOH/g		9.8	8.8	9.2	4.4	
. ,	- 0						



OIL ANALYSIS REPORT

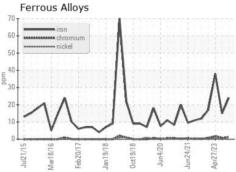


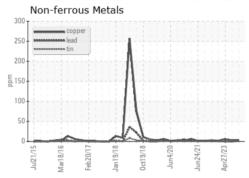


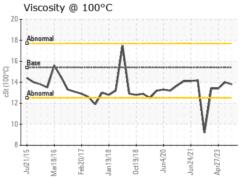
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

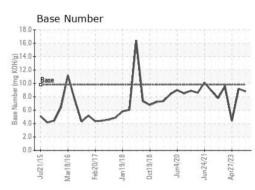
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	14.0	13.4	

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number** Test Package : FLEET

: GFL0089298 : 05953804

: 10655017

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Sep 2023 : 20 Sep 2023 Diagnosed

Diagnostician : Don Baldridge

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)

GFL Environmental - 001 - Raleigh(CNG)

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