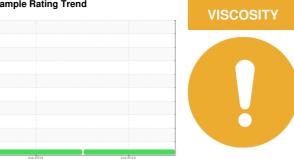


OIL ANALYSIS REPORT

Sample Rating Trend



514045 PETERBILT 567

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- G

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Fluid Condition

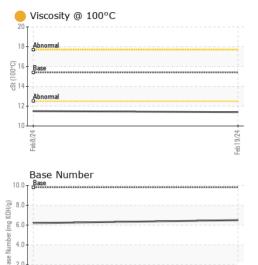
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

GAL)						
,			Feb 2024	Feb 2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0103993	GFL0103990	
Sample Date		Client Info		19 Feb 2024	08 Feb 2024	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ATTENTION	ATTENTION	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	1.4	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	46	39	
Chromium	ppm	ASTM D5185m	>4	<1	<1	
Nickel	ppm	ASTM D5185m	>2	<1	0	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	>2	<1	<1	
Aluminum	ppm	ASTM D5185m	>25	21	20	
Lead	ppm	ASTM D5185m	>45	1	1	
Copper	ppm	ASTM D5185m	>85	19	18	
Tin	ppm	ASTM D5185m	>4	1	<1	
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	41	42	
Barium	ppm	ASTM D5185m	0	0	<1	
Molybdenum	ppm	ASTM D5185m	60	6	7	
Manganese	ppm	ASTM D5185m	0	2	1	
Magnesium	ppm	ASTM D5185m	1010	806	690	
Calcium	ppm	ASTM D5185m	1070	1741	1419	
Phosphorus	ppm	ASTM D5185m	1150	809	731	
Zinc	ppm	ASTM D5185m	1270	1079	861	
Sulfur	ppm	ASTM D5185m	2060	3553	2805	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	13	12	
Sodium	ppm	ASTM D5185m		2	2	
Potassium	ppm	ASTM D5185m	>20	63	63	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	8.8	8.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	19.2	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	14.2	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.5	6.2	



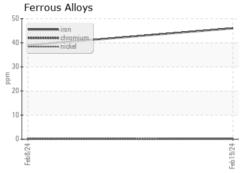
0.0

OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPE	RTIES	method	limit/base	current	history1	history2

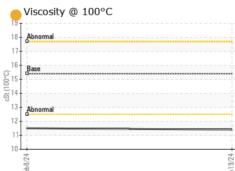
FLUID PROPE	ERITES					
Visc @ 100°C	cSt	ASTM D445	15.4	11.4	11.5	

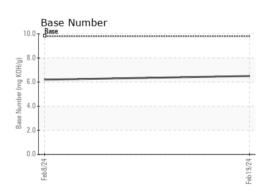


	copper	
	eeeeeeeeeeeeeeeeeeeeeeeee	
15+	tin	

Non-ferrous Metals











Certificate L2367

Laboratory Sample No. Lab Number : 06104159

Test Package : FLEET

: GFL0103993 Unique Number : 10902389

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 29 Feb 2024 : 29 Feb 2024 Diagnosed

: 04 Mar 2024 - Sean Felton

GFL Environmental - 980 - Northside Hauling

1820 Candle Ridge Park Dr Houston, TX US 77073

Contact: Edwin Collins ecollins@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)

T:

F: