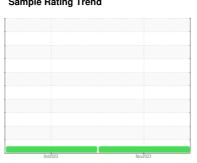


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



923059 PETERBILT 320

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (---

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

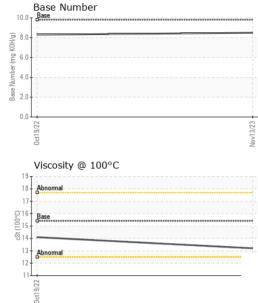
Fluid Condition

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

GAL)			0ct2022	Nov2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0061439	GFL0061443	
Sample Date		Client Info		13 Nov 2023	19 Oct 2022	
Machine Age	hrs	Client Info		24564	22395	
Oil Age	hrs	Client Info		600	1350	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	25	86	
Chromium	ppm	ASTM D5185m	>4	<1	4	
Nickel	ppm	ASTM D5185m	>2	0	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>25	1	<1	
Lead	ppm	ASTM D5185m	>45	0	8	
Copper	ppm	ASTM D5185m		1	4	
Tin	ppm	ASTM D5185m	>4	0	0	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	0	
Barium	ppm	ASTM D5185m	0	<1	0	
Molybdenum	ppm	ASTM D5185m	60	54	64	
Manganese	ppm	ASTM D5185m	0	0	<1	
Magnesium	ppm	ASTM D5185m	1010	827	859	
Calcium	ppm	ASTM D5185m	1070	1000	1140	
Phosphorus	ppm	ASTM D5185m	1150	894	905	
Zinc	ppm	ASTM D5185m	1270	1116	1159	
Sulfur	ppm	ASTM D5185m	2060	3076	2618	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	3	6	
Sodium	ppm	ASTM D5185m		<1	20	
Potassium	ppm	ASTM D5185m	>20	3	7	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	1	
Nitration	Abs/cm	*ASTM D7624	>20	6.6	11.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	23.6	
FLUID DEGRAE	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.6	18.3	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.5	8.3	



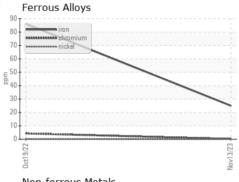
OIL ANALYSIS REPORT

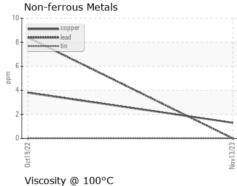


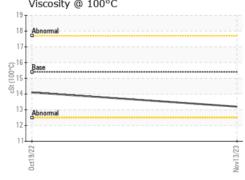
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance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

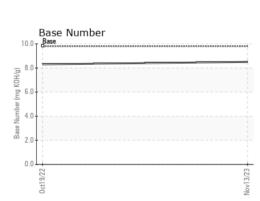
FLUID PROPI	ERHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	14.1	

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10750423

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 06011279

: GFL0061439 Test Package : FLEET

Received Diagnosed Diagnostician : Sean Felton

: 17 Nov 2023 : 21 Nov 2023 GFL Environmental - 642- Grand Rapids Hauling

5826 Alden Nash Ave SE Lowell, MI US 49331

Contact: Josh Arnett joshuaarnett@gflenv.com

T: F:

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)