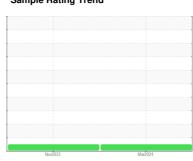


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **425119**

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (--- 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

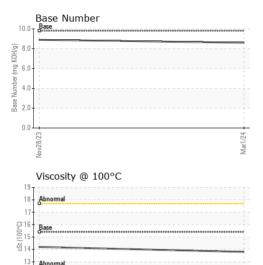
Fluid Condition

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

AL)			Nov2023	Mar2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0111160	GFL0087956	
Sample Date		Client Info		01 Mar 2024	28 Nov 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		600	600	
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 METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	46	21	
Chromium	ppm	ASTM D5185m	>4	7	6	
Nickel	ppm	ASTM D5185m	>2	2	1	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>25	6	4	
Lead	ppm	ASTM D5185m	>45	7	0	
Copper	ppm	ASTM D5185m	>85	7	3	
Tin	ppm	ASTM D5185m	>4	<1	0	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	2	
Barium	ppm	ASTM D5185m	0	0	<1	
Molybdenum	ppm	ASTM D5185m	60	59	58	
Manganese	ppm	ASTM D5185m	0	<1	0	
Magnesium	ppm	ASTM D5185m	1010	1060	992	
Calcium	ppm	ASTM D5185m	1070	1151	1125	
Phosphorus	ppm	ASTM D5185m	1150	1098	1091	
Zinc	ppm	ASTM D5185m	1270	1293	1306	
Sulfur	ppm	ASTM D5185m	2060	3247	3250	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	25	17	
Sodium	ppm	ASTM D5185m		3	<1	
Potassium	ppm	ASTM D5185m	>20	1	0	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	9.8	6.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	19.0	
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Out deathers	Al / d	*AOTA D7444	0.5	00.5	45.0	
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.5	15.6	



OIL ANALYSIS REPORT

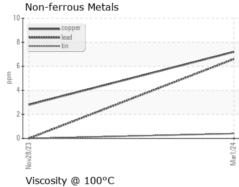


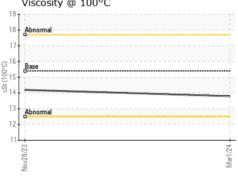
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance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

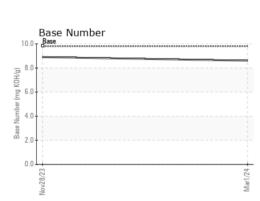
FLUID PROP	ERTIES	method	limit/base		history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	14.2	

GRAPHS











Certificate L2367

Laboratory Sample No. Lab Number : 06108544

Test Package : FLEET

: GFL0111160 Unique Number : 10912041

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 05 Mar 2024 **Tested**

Diagnosed

: 06 Mar 2024 : 06 Mar 2024 - Angela Borella

GFL Environmental - 960B - Pittsfield HC

1335 W. Washington Pittsfield, IL US 62363

Contact: David Bradshaw david.bradshaw@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: