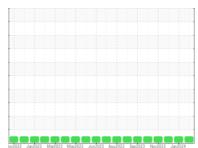


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id **429145** Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (--- 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

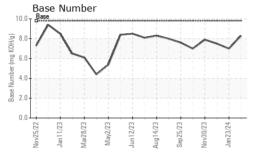
Fluid Condition

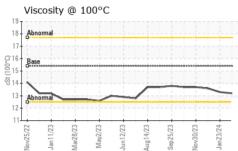
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

ON SHP 15W40 (GAL)							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0099293	GFL0105550	GFL0087078	
Sample Date		Client Info		13 Mar 2024	23 Jan 2024	21 Dec 2023	
Machine Age	hrs	Client Info		0	0	0	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		Not Changd	Changed	Not Changd	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
-uel		WC Method	>3.0	<1.0	<1.0	<1.0	
<i>N</i> ater		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2	
ron	ppm	ASTM D5185m	>120	5	11	6	
Chromium	ppm	ASTM D5185m	>20	<1	<1	0	
Nickel	ppm	ASTM D5185m	>5	<1	0	0	
Γitanium	ppm	ASTM D5185m	>2	0	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	2	1	
_ead	ppm	ASTM D5185m	>40	<1	1	0	
Copper	ppm	ASTM D5185m	>330	8	3	<1	
Γin	ppm	ASTM D5185m	>15	2	<1	<1	
/anadium	ppm	ASTM D5185m		<1	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	8	0	0	
Barium	ppm	ASTM D5185m		0	0	0	
Molybdenum	ppm	ASTM D5185m	60	52	58	62	
Manganese	ppm	ASTM D5185m	0	<1	<1	0	
Magnesium	ppm	ASTM D5185m	1010	865	924	911	
Calcium	ppm	ASTM D5185m	1070	1225	1137	1217	
Phosphorus	ppm	ASTM D5185m	1150	939	1021	1005	
Zinc	ppm	ASTM D5185m	1270	1198	1255	1177	
Sulfur	ppm	ASTM D5185m	2060	3597	3036	3028	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	4	2	
Sodium	ppm	ASTM D5185m		2	4	1	
Potassium	ppm	ASTM D5185m	>20	2	3	0	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.2	0.4	0.3	
Vitration	Abs/cm	*ASTM D7624	>20	5.6	8.5	7.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.6	19.6	19.3	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.7	15.7	15.4	
Skidation	AUS/. IIIIIII	//OTIVI D/ TIT	/20	13.7	13.7	13.4	



OIL ANALYSIS REPORT

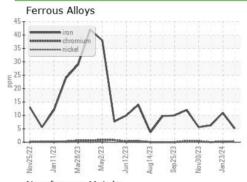


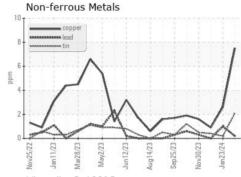


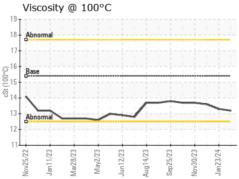
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

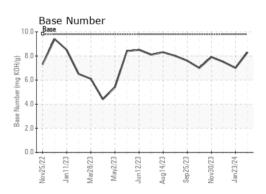
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	13.3	13.6

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number : 06131562 Unique Number: 10951027 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0099293

Received **Tested**

: 28 Mar 2024 Diagnosed : 28 Mar 2024 - Wes Davis

: 28 Mar 2024

GFL Environmental - 846 - Mayfield Hauling

3426 State Route 45 Mayfield, KY US 42066

Contact: Jack Lindsey jack.lindsey@gflenv.com

T: (270)970-3690

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)

Report Id: GFL846 [WUSCAR] 06131562 (Generated: 03/28/2024 17:46:40) Rev: 1

Contact/Location: Jack Lindsey - GFL846