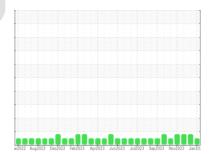


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 812003 Component Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (--- QTS)

DIAGNOSIS Recommendation

Tiecommendation

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

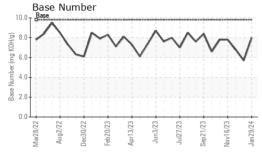
Fluid Condition

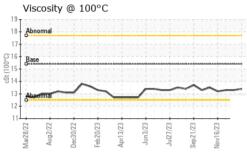
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

OAMBLE MESSE	4 A TION		2 Dec2022 Feb2023 Apr20				
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0097162	GFL0068864	GFL0097155	
Sample Date		Client Info		29 Jan 2024	13 Jan 2024	22 Dec 2023	
Machine Age	hrs	Client Info		6278	6128	5978	
Oil Age	hrs	Client Info		150	547	397	
Oil Changed		Client Info		Not Changd	Changed	Not Changd	
Sample Status				NORMAL	ABNORMAL	ABNORMAL	
CONTAMINATI	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METALS	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>120	5	11	6	
Chromium	ppm	ASTM D5185m	>20	<1	1	<1	
Nickel	ppm	ASTM D5185m	>5	4	<u> </u>	<u> </u>	
Titanium	ppm	ASTM D5185m	>2	<1	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	<1	<1	<1	
Lead	ppm	ASTM D5185m	>40	<1	0	0	
Copper	ppm	ASTM D5185m	>330	2	6	5	
Tin	ppm	ASTM D5185m	>15	<1	<1	2	
Vanadium	ppm	ASTM D5185m		0	<1	0	
Cadmium	ppm	ASTM D5185m		<1	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	4	<1	3	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	59	53	54	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	933	891	887	
Calcium	ppm	ASTM D5185m	1070	941	955	953	
Phosphorus	ppm	ASTM D5185m	1150	936	942	974	
Zinc	ppm	ASTM D5185m	1270	1188	1145	1240	
Sulfur	ppm	ASTM D5185m	2060	2883	2509	2708	
CONTAMINANTS method limit/base current history1 history2							
Silicon	ppm	ASTM D5185m	>25	5	4	3	
Sodium	ppm	ASTM D5185m		12	4	2	
Potassium	ppm	ASTM D5185m	>20	6	1	<1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.2	0.7	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	5.7	9.0	7.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.0	20.0	18.9	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.4	15.9	14.6	
Base Number (BN)	mg KOH/g	ASTM D2896		8.0	5.7	6.8	
_ 355diiiboi (Di4)				0.0	0.7	0.0	



OIL ANALYSIS REPORT

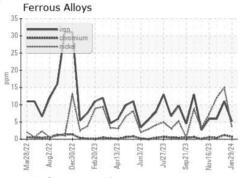


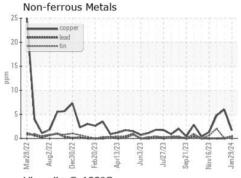


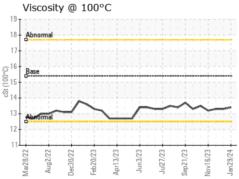
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

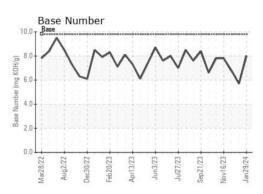
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.3	13.3	

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10860236 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0097162 : 06078145

Recieved Diagnosed

: 02 Feb 2024 : 04 Feb 2024 Diagnostician : Wes Davis

GFL Environmental - 073 - Warner Robins - Transwaste

155 Story Road Warner Robins, GA US 31093

Contact: JOSH MALONEY

jmaloney@gflenv.com T:

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: GFL073 [WUSCAR] 06078145 (Generated: 02/04/2024 17:36:25) Rev: 1

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