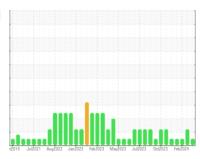


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
12036
Component
Diesel Engine

PETRO CANADA DURON SHP 15W40 (32 QTS)

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.

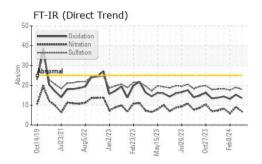
Fluid Condition

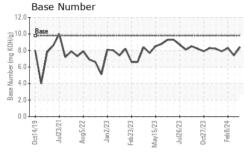
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

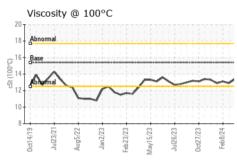
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0111414	GFL0068835	GFL0068878	
Sample Date		Client Info		20 May 2024	29 Mar 2024	08 Feb 2024	
	hrs	Client Info		14668	14332	13968	
J	hrs	Client Info		336	489	125	
Oil Changed	0	Client Info		Not Changd	Changed	Not Changd	
Sample Status		Chorte hillo		NORMAL	ABNORMAL	NORMAL	
CONTAMINATION	ON	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		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>75	8	14	5	
	ppm	ASTM D5185m	>5	<1	<1	<1	
	ppm	ASTM D5185m	>4	0	0	0	
	ppm	ASTM D5185m	>2	0	0	<1	
	ppm	ASTM D5185m	>2	<1	0	0	
	ppm	ASTM D5185m	>15	2	2	3	
	ppm	ASTM D5185m	>25	<1	0	0	
	ppm		>100	<1	0	0	
		ASTM D5185m	>100	0	0	0	
	ppm	ASTM D5185m	>4	<1	0	0	
	ppm						
	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
	ppm	ASTM D5185m	0	1	6	6	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	61	62	55	
Manganese	ppm	ASTM D5185m	0	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	1011	867	860	
Calcium	ppm	ASTM D5185m	1070	1091	951	932	
Phosphorus	ppm	ASTM D5185m	1150	1068	967	978	
Zinc	ppm	ASTM D5185m	1270	1343	1144	1129	
Sulfur	ppm	ASTM D5185m	2060	3774	3189	2808	
CONTAMINANTS method limit/base current history1						history2	
Silicon	ppm	ASTM D5185m	>25	4	6	7	
Sodium	ppm	ASTM D5185m		79	<u>▲</u> 187	64	
Potassium	ppm	ASTM D5185m	>20	3	3	0	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	0.3	0.6	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	6.8	9.1	5.8	
	Abs/.1mm	*ASTM D7415	>30	17.9	19.0	17.6	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.5	15.3	13.1	
	mg KOH/g	ASTM D2896		8.4	7.4	8.3	
(2.1)	999	J J _ 0 00				0.0	



OIL ANALYSIS REPORT



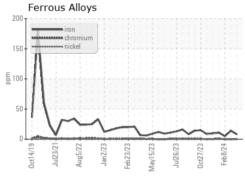


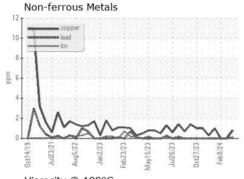


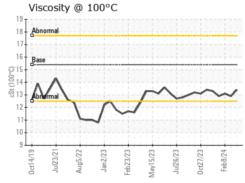
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

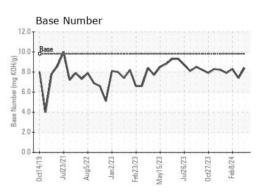
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	12.9	13.1	

GRAPHS













Certificate 12367

Laboratory Sample No. Unique Number : 11044255

Test Package : FLEET

: GFL0111414 Lab Number : 06187503

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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

Received : 22 May 2024 **Tested** : 23 May 2024 Diagnosed

: 23 May 2024 - Wes Davis

GFL Environmental - 073 - Warner Robins - Transwaste

155 Story Road Warner Robins, GA US 31093

Contact: JOSH MALONEY

jmaloney@gflenv.com T:

* - 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)

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