

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 10710 Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (10 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.

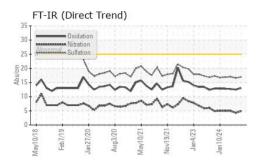
Fluid Condition

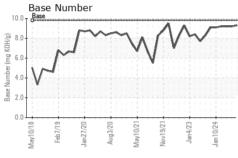
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

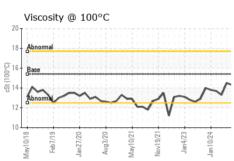
une,							
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0125896	GFL0118728	GFL0110591	
Sample Date		Client Info		08 Jul 2024	07 May 2024	26 Feb 2024	
Machine Age	hrs	Client Info		19180	19080	19152	
Oil Age	hrs	Client Info		600	200	0	
Oil Changed		Client Info		Not Changd	Not Changd	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>110	38	16	23	
Chromium	ppm	ASTM D5185m	>4	1	<1	1	
Nickel	ppm	ASTM D5185m	>2	0	0	<1	
Titanium	ppm	ASTM D5185m		<1	0	<1	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>25	14	5	10	
Lead	ppm	ASTM D5185m	>45	0	0	0	
Copper	ppm	ASTM D5185m	>85	1	3	<1	
Tin	ppm	ASTM D5185m	>4	0	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	<1	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	<1	2	3	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	59	57	63	
Manganese	ppm	ASTM D5185m	0	0	1	<1	
Magnesium	ppm	ASTM D5185m	1010	966	976	940	
Calcium	ppm	ASTM D5185m	1070	1096	1044	979	
Phosphorus	ppm	ASTM D5185m	1150	1078	1063	1073	
Zinc	ppm	ASTM D5185m	1270	1263	1244	1238	
Sulfur	ppm	ASTM D5185m	2060	2995	3592	3311	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>30	4	5	5	
Sodium	ppm	ASTM D5185m		<1	1	2	
Potassium	ppm	ASTM D5185m	>20	5	<1	4	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	4.9	4.3	5.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.9	16.6	17.0	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.0	12.5	12.7	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.3	9.2	9.2	
	39						



OIL ANALYSIS REPORT



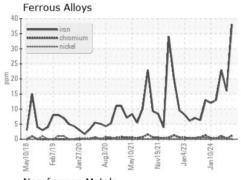


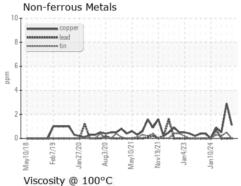


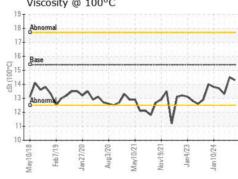
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

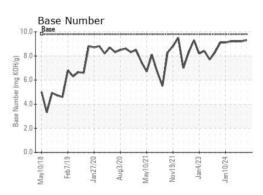
	FLUID PROPI	ERITES	method	ilmivbase		nistory i	nistoryz
٧	isc @ 100°C	cSt	ASTM D445	15.4	14.3	14.5	13.3

GRAPHS













Certificate 12367

Laboratory Sample No. Unique Number : 11123354

: GFL0125896 Lab Number : 06234520

Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Jul 2024

Tested : 12 Jul 2024 Diagnosed : 12 Jul 2024 - Wes Davis

GFL Environmental - 166 - Phenix City

18 Old Brickyard Rd Phenix City, AL

US 36869 Contact: DEAN PEACE JR

dean.peace@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)

Report Id: GFL166 [WUSCAR] 06234520 (Generated: 07/12/2024 16:35:09) Rev: 1

Submitted By: DEAN PEACE JR

F: