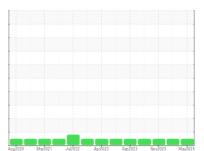


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **527020-7016**

Diesel Engine

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

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

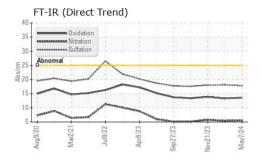
Fluid Condition

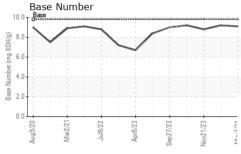
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

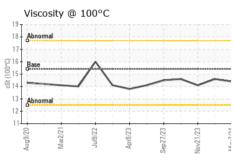
SAMPLE INFORM	/IATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0091852	GFL0112714	GFL0101375	
Sample Date		Client Info		07 May 2024	14 Feb 2024	21 Nov 2023	
Machine Age	hrs	Client Info		14412	14268	14239	
Oil Age	hrs	Client Info		14412	0	14239	
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATI	ON	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 METALS	3	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>110	9	8	7	
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>2	<1	0	<1	
Titanium	ppm	ASTM D5185m		<1	0	<1	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>25	4	<1	2	
Lead	ppm	ASTM D5185m	>45	<1	<1	<1	
Copper	ppm	ASTM D5185m	>85	1	2	1	
Tin	ppm	ASTM D5185m	>4	<1	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	<1	0	
Cadmium	ppm	ASTM D5185m		<1	0	<1	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	<1	2	4	
Barium	ppm	ASTM D5185m	0	0	0	<1	
Molybdenum	ppm	ASTM D5185m	60	60	57	58	
Manganese	ppm	ASTM D5185m	0	<1	0	<1	
Magnesium	ppm	ASTM D5185m	1010	929	925	920	
Calcium	ppm	ASTM D5185m	1070	1062	993	1066	
Phosphorus	ppm	ASTM D5185m	1150	1019	975	961	
Zinc	ppm	ASTM D5185m	1270	1224	1187	1172	
Sulfur	ppm	ASTM D5185m	2060	3517	2990	3470	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>30	5	5	5	
Sodium	ppm	ASTM D5185m		0	1	0	
Potassium	ppm	ASTM D5185m	>20	7	6	4	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.1	0.4	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	5.6	5.4	5.8	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.8	18.1	18.0	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.6	13.3	13.9	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.1	9.2	8.8	
	33						



OIL ANALYSIS REPORT



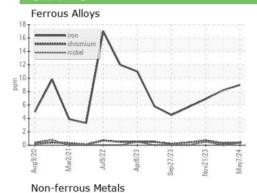




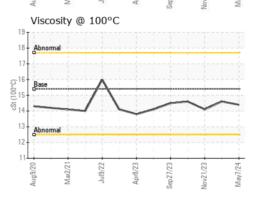
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

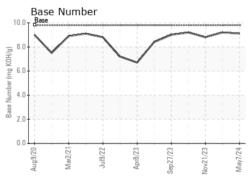
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.4	14.6	14.1

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0091852 Lab Number : 06178180 Unique Number : 11029506 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 May 2024

Tested : 14 May 2024 Diagnosed : 14 May 2024 - Wes Davis

GFL Environmental - 654 - Richmond Hauling

11800 Lewis Road Chester, VA US 23831

Contact: Jimmy Mayes jmayes@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)

Report Id: GFL654 [WUSCAR] 06178180 (Generated: 05/14/2024 16:41:47) Rev: 1

T: F: