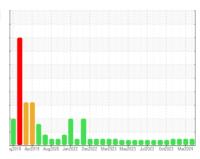


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
11319
Component
Diesel Engine

PETRO CANADA DURON SHP 15W40 (28 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

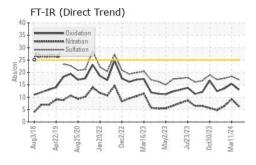
Fluid Condition

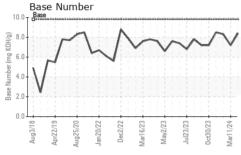
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

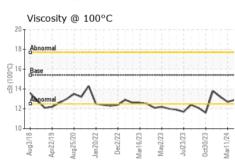
SAMPLE INFORM	1AT <u>ION</u>	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0115697	GFL0115748	GFL0107181
Sample Date		Client Info		05 Apr 2024	11 Mar 2024	30 Jan 2024
Machine Age	hrs	Client Info		7689	7551	7313
Oil Age	hrs	Client Info		138	371	133
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	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	6	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	6	11	4
Chromium	ppm	ASTM D5185m	>5	<1	<1	0
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>15	2	2	1
Lead	ppm	ASTM D5185m	>25	<1	<1	0
Copper	ppm	ASTM D5185m	>100	1	<1	0
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	10	9	14
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	65	58	56
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	867	809	818
Calcium	ppm	ASTM D5185m	1070	1043	947	940
Phosphorus	ppm	ASTM D5185m	1150	942	932	961
Zinc	ppm	ASTM D5185m	1270	1144	1117	1124
Sulfur	ppm	ASTM D5185m	2060	2916	3085	2847
CONTANANT					history1	history2
CONTAMINANT	IS	method	limit/base	current	nistory i	111010172
Silicon	ppm		>25	current 4	3	3
				5 4.7.5.11		
Silicon Sodium	ppm	ASTM D5185m		4	3	3
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>25	4 17	3	3
Silicon Sodium Potassium INFRA-RED	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>25	4 17 2	3 31 2	3 10 2
Silicon Sodium Potassium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	>25 >20 limit/base	4 17 2 current	3 31 2 history1	3 10 2 history2
Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	>25 >20 limit/base >6	4 17 2 current	3 31 2 history1	3 10 2 history2
Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m Method *ASTM D7844 *ASTM D7624	>25 >20 limit/base >6 >20	4 17 2 current 0.2 6.3	3 31 2 history1 0.4 9.2	3 10 2 history2 0.2 6.4
Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m Method *ASTM D7844 *ASTM D7624 *ASTM D7415	>25 >20 limit/base >6 >20 >30	4 17 2 current 0.2 6.3 17.1	3 31 2 history1 0.4 9.2 18.4	3 10 2 history2 0.2 6.4 17.6



OIL ANALYSIS REPORT



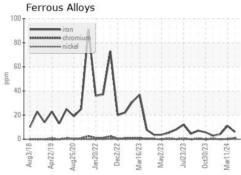


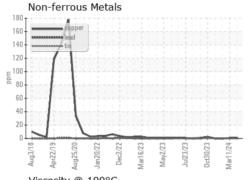


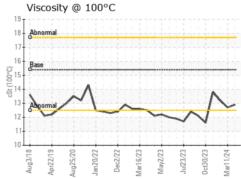
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

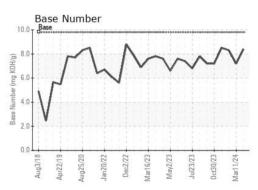
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	12.9	12.7	13.2	

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06140899

: GFL0115697 Unique Number : 10965707 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 08 Apr 2024

Tested : 08 Apr 2024 Diagnosed : 08 Apr 2024 - Wes Davis

GFL Environmental - 010 - Stockbridge

1280 Rum Creek Parkway Stockbridge, GA

US 30281

Contact: JOSHUA TINKER joshuatinker@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: GFL010 [WUSCAR] 06140899 (Generated: 04/08/2024 18:28:10) Rev: 1

Submitted By: JOSHUA TINKER

T:

F: