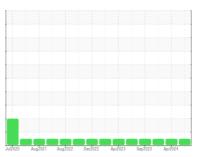


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 228032-208

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

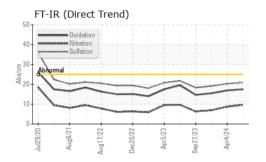
Fluid Condition

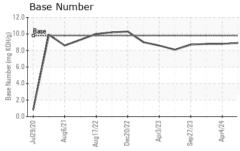
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

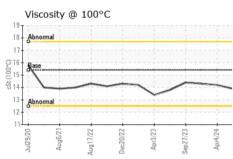
-111/							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0119274	GFL0070943	GFL0058064	
Sample Date		Client Info		17 Jun 2024	04 Apr 2024	03 Jan 2024	
Machine Age	hrs	Client Info		1005	941	822	
Oil Age	hrs	Client Info		183	119	1	
Oil Changed		Client Info		Changed	Not Changd	N/A	
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	>100	21	21	13	
Chromium	ppm	ASTM D5185m	>20	<1	1	<1	
Nickel	ppm	ASTM D5185m	>4	<1	<1	0	
Titanium	ppm	ASTM D5185m		<1	1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	3	4	2	
Lead	ppm	ASTM D5185m	>40	<1	1	3	
Copper	ppm	ASTM D5185m	>330	2	2	10	
Tin	ppm	ASTM D5185m	>15	<1	<1	1	
Vanadium	ppm	ASTM D5185m		0	<1	<1	
Cadmium	ppm	ASTM D5185m		0	<1	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	8	6	8	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	64	67	66	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	997	991	992	
Calcium	ppm	ASTM D5185m	1070	1159	1125	1142	
Phosphorus	ppm	ASTM D5185m	1150	1151	1028	1091	
Zinc	ppm	ASTM D5185m	1270	1351	1272	1314	
Sulfur	ppm	ASTM D5185m	2060	3647	2983	3260	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	12	11	7	
Sodium	ppm	ASTM D5185m		4	8	12	
Potassium	ppm	ASTM D5185m	>20	4	3	11	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	1	0.8	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	9.7	8.7	6.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	20.3	19.1	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.5	16.9	15.5	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.9	8.8	8.8	
(214)							



OIL ANALYSIS REPORT



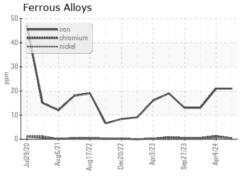


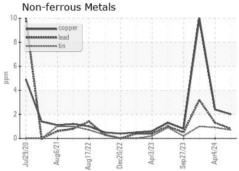


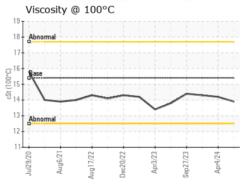
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

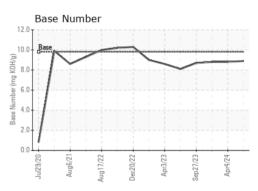
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	14.2	14.3

GRAPHS













Certificate 12367

Laboratory Sample No.

Lab Number : 06213283 Unique Number : 11086147

: GFL0119274

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Jun 2024

Tested : 19 Jun 2024 Diagnosed : 19 Jun 2024 - Wes Davis

5498 Richmond Road

Troy, VA US 22974 Contact: Brian Ulickas bulickas@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: GFL657 [WUSCAR] 06213283 (Generated: 06/20/2024 08:48:26) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

GFL Environmental - 657 - Charlottesville Hauling

T:

F: