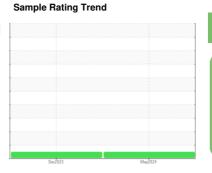


OIL ANALYSIS REPORT

Area (BD08810) 425173

Diesel Engine

PETRO CANADA DURON SHP 15W40 (9 QTS)





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

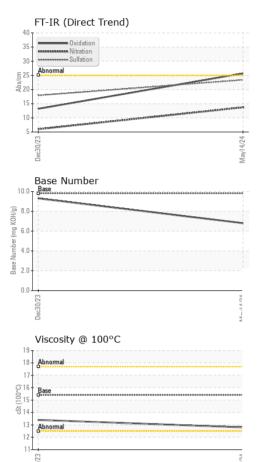
Fluid Condition

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

TS)		,	Dec2023	May2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0115061	GFL0106650	
Sample Date		Client Info		14 May 2024	30 Dec 2023	
Machine Age	hrs	Client Info		36116	35509	
Oil Age	hrs	Client Info		607	612	
Oil Changed	1115	Client Info			Changed	
Sample Status		Ciletit IIIIO		Changed NORMAL	NORMAL	
CONTAMINAT	ION	us sale s al	lineit/lenen			
	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0 NEG	
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>85	43	13	
Chromium	ppm	ASTM D5185m	>5	2	0	
Nickel	ppm	ASTM D5185m	>4	1	0	
Titanium	ppm	ASTM D5185m	>2	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>40	7	2	
Lead	ppm	ASTM D5185m	>10	2	<1	
Copper	ppm	ASTM D5185m	>100	1	1	
Tin	ppm	ASTM D5185m	>4	<1	0	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	3	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	53	54	
Manganese	ppm	ASTM D5185m	0	<1	0	
Magnesium	ppm	ASTM D5185m	1010	889	874	
Calcium	ppm	ASTM D5185m	1070	924	993	
Phosphorus	ppm	ASTM D5185m	1150	898	928	
Zinc	ppm	ASTM D5185m	1270	1148	1221	
Sulfur	ppm	ASTM D5185m	2060	3089	2827	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	11	2	
Sodium	ppm	ASTM D5185m		14	<1	
Potassium	ppm	ASTM D5185m	>20	4	2	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	13.7	6.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.4	17.9	
FLUID DEGRA	DATIO <u>N</u>	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.7	13.2	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.8	9.3	
(DI4)	mg nong	0 1111 DL000	3.0	0.0	0.0	



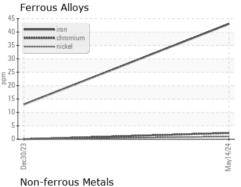
OIL ANALYSIS REPORT

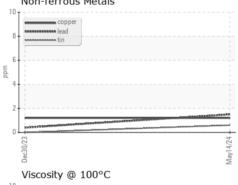


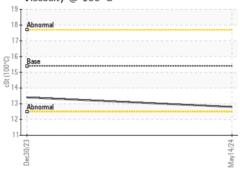
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	

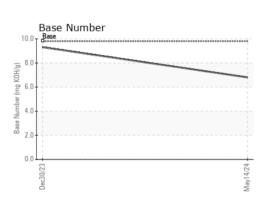
FLUID FROFI	ENTIES	method			HISTOLAL	HISTOLYZ
Visc @ 100°C	cSt	ASTM D445	15.4	12.8	13.4	

GRAPHS













Certificate 12367

Laboratory

Sample No. : GFL0115061 Lab Number : 06190234 Unique Number : 11046986

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 May 2024

Tested : 29 May 2024 Diagnosed : 29 May 2024 - Sean Felton

GFL Environmental - 405 - Arbor Hills 7811 Chubb Rd

NORTHVILLE, MI US 48168 Contact: John Nahal jnahal@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: GFL405 [WUSCAR] 06190234 (Generated: 05/29/2024 13:50:56) Rev: 1

Submitted By: John Nahal

T:

F: