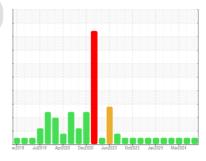


OIL ANALYSIS REPORT

Area (01KJ9A) 723023-361636

Diesel Engine

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



Sample Rating Trend



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

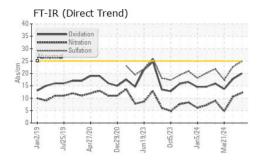
Fluid Condition

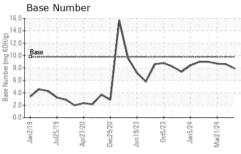
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

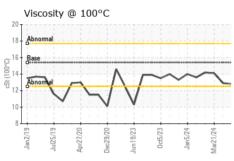
OAMBLE INFORM	4471011					
SAMPLE INFORM	IA HON	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0120208	GFL0120180	GFL0114045
Sample Date		Client Info		05 Jun 2024	16 May 2024	21 Mar 2024
Machine Age	hrs	Client Info		26055	25914	25609
Oil Age	hrs	Client Info		600	0	0
Oil Changed		Client Info		Changed	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	>100	27	23	<1
Chromium	ppm	ASTM D5185m	>20	2	2	0
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	3	4	<1
Lead	ppm	ASTM D5185m	>40	2	1	0
Copper	ppm	ASTM D5185m	>330	<1	<1	0
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	3	6
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	52	57	58
Manganese	ppm	ASTM D5185m	0	<1	0	0
Magnesium	ppm	ASTM D5185m	1010	785	802	968
Calcium	ppm	ASTM D5185m	1070	995	1048	1162
Phosphorus	ppm	ASTM D5185m	1150	909	966	1066
Zinc	ppm	ASTM D5185m	1270	1074	1100	1262
Sulfur	ppm	ASTM D5185m	2060	2882	2863	3786
CONTAMINAN	ΓS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	6	2
Sodium	ppm	ASTM D5185m		33	30	<1
Potassium	ppm	ASTM D5185m	>20	<1	3	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	2.6	2.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	12.2	10.6	4.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.9	22.7	17.4
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.0	17.8	13.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.9	8.6	8.7
	3 3					



OIL ANALYSIS REPORT



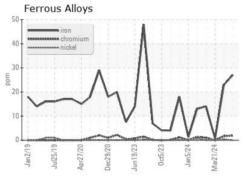


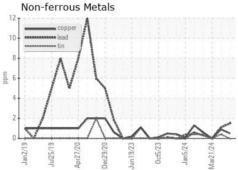


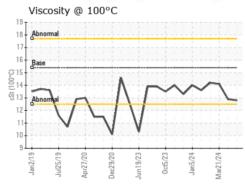
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

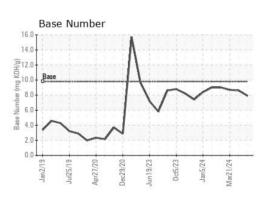
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.8	12.9	14.1

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0120208 Lab Number : 06202483

Unique Number : 11069944 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 07 Jun 2024 Received

Tested : 11 Jun 2024 Diagnosed : 11 Jun 2024 - Wes Davis

22820 S State Route 291 Harrisonville, MO

GFL Environmental - 837 - Harrison TS

US 64701

Contact: SARA PATRICK spatrick@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)

T: F: