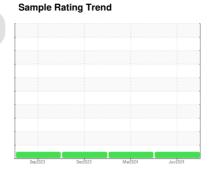


OIL ANALYSIS REPORT



Machine Id
714054
Component
Diesel Engine
Fluid

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





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil

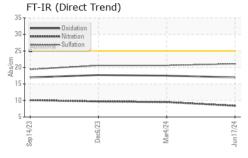
Fluid Condition

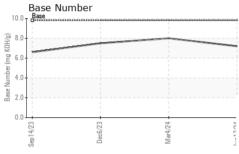
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

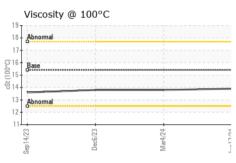
SAMPLE INFORM	AATION	method	limit/base	current	history1	history2	
	IATION		IIIIIIIIIIII		GFL0107845		
Sample Number		Client Info		GFL0107035 17 Jun 2024	04 Mar 2024	GFL0096559 06 Dec 2023	
Sample Date Machine Age	hrs	Client Info		2586	1765	1161	
	hrs	Client Info		600	600	600	
Oil Age	1115	Client Info		Changed	Changed	Changed	
Oil Changed Sample Status		Ciletit iiiio		NORMAL	NORMAL	NORMAL	
·	ON .		11 11 11				
CONTAMINATI	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	3	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>90	15	23	22	
Chromium	ppm	ASTM D5185m	>20	<1	<1	0	
Nickel	ppm	ASTM D5185m	>2	<1	<1	0	
Titanium	ppm	ASTM D5185m	>2	0	0	0	
Silver	ppm	ASTM D5185m	>2	<1	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	2	3	
Lead	ppm	ASTM D5185m	>40	0	<1	<1	
Copper	ppm	ASTM D5185m	>330	2	<1	2	
Tin	ppm	ASTM D5185m	>15	1	0	0	
Vanadium	ppm	ASTM D5185m		0	<1	0	
Cadmium	ppm	ASTM D5185m		0	<1	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	4	1	3	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	58	60	60	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	956	1038	1009	
Calcium	ppm	ASTM D5185m	1070	1086	1154	1214	
Phosphorus	ppm	ASTM D5185m	1150	1083	1079	1064	
Zinc	ppm	ASTM D5185m	1270	1295	1366	1253	
Sulfur	ppm	ASTM D5185m	2060	3126	3080	3005	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	6	3	4	
Sodium	ppm	ASTM D5185m		7	4	3	
Potassium	ppm	ASTM D5185m	>20	4	2	5	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	1	0.7	0.6	
Nitration	Abs/cm	*ASTM D7624	>20	8.4	9.5	9.7	
Sulfation	Abs/.1mm	*ASTM D7415		21.1	20.6	20.6	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	17.5	17.7	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.2	8.0	7.5	
Dage (DIV)	ing itoring	, .O I WI DE000	0.0	1.2	0.0	7.0	



OIL ANALYSIS REPORT



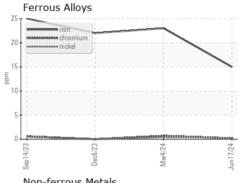


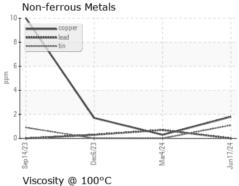


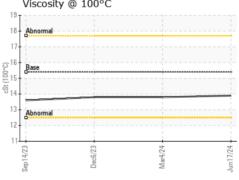
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

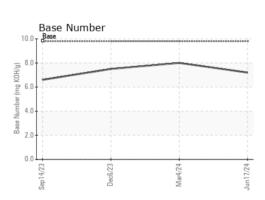
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.8	13.8	

GRAPHS













Certificate 12367

Sample No. Lab Number : 06213267 Unique Number : 11086131

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0107035

Received : 18 Jun 2024 **Tested** Diagnosed

: 19 Jun 2024 : 19 Jun 2024 - Wes Davis

GFL Environmental - 465 - Pontiac 888 Baldwin Pontiac, MI US 48340

Contact: Ricky Matthews rickymathews@gflenv.com T: (586)825-9514

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)