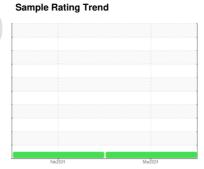


OIL ANALYSIS REPORT



Machine Id
727147
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (--- 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

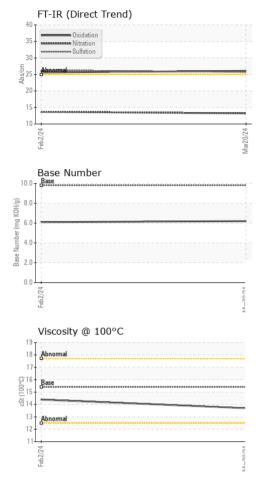
Fluid Condition

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

N SHP 15W4U (-	GAL)		Feb 2024	Mar2024		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0084809	GFL0084770	
Sample Date		Client Info		20 Mar 2024	02 Feb 2024	
Machine Age	hrs	Client Info		16857	16857	
Oil Age	hrs	Client Info		16857	6127	
Oil Changed		Client Info		Changed	N/A	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
-uel		WC Method	>3.0	<1.0	<1.0	
<i>N</i> ater		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	_S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>75	54	55	
Chromium	ppm	ASTM D5185m	>5	1	1	
Nickel	ppm	ASTM D5185m	>4	0	1	
Titanium	ppm	ASTM D5185m	>2	0	<1	
Silver	ppm	ASTM D5185m	>2	0	<1	
Aluminum	ppm	ASTM D5185m	>15	5	5	
_ead	ppm	ASTM D5185m	>25	2	2	
Copper	ppm	ASTM D5185m	>100	0	3	
Γin	ppm	ASTM D5185m	>4	1	1	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	2	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	59	60	
Manganese	ppm	ASTM D5185m	0	<1	2	
Magnesium	ppm	ASTM D5185m	1010	940	938	
Calcium	ppm	ASTM D5185m	1070	1075	1050	
Phosphorus	ppm	ASTM D5185m	1150	1008	1019	
Zinc	ppm	ASTM D5185m	1270	1215	1244	
Sulfur	ppm	ASTM D5185m	2060	3054	2728	
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	14	16	
Sodium	ppm	ASTM D5185m		25	11	
Potassium	ppm	ASTM D5185m	>20	8	7	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	1	1.1	
Vitration	Abs/cm	*ASTM D7624	>20	13.2	13.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.7	26.3	
FLUID DEGRA	.DATION	method	limit/base	current	history1	history2
FLUID DEGRA	DATION Abs/.1mm	method *ASTM D7414	limit/base >25	current 26.1	history1 25.6	history2



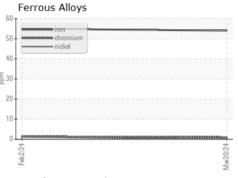
OIL ANALYSIS REPORT

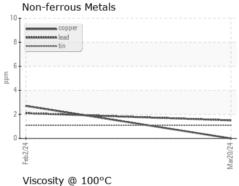


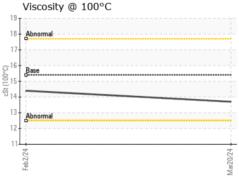
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance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

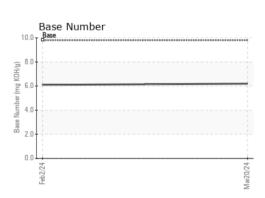
FLUID PROPI	ERIIES	method	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	14.4	

GRAPHS













Certificate 12367

Laboratory Sample No.

Test Package : FLEET

: GFL0084809 Lab Number : 06151438

Unique Number : 10981516

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Apr 2024 Tested

: 18 Apr 2024 Diagnosed : 19 Apr 2024 - Sean Felton

GFL Environmental - 959A - Urbana HC

4808 cunningham Rd Urbana, IL US 61802

Contact: Kristine Tryon Ktryon@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: