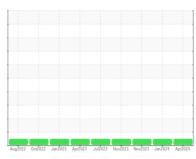


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id
912045
Component

Component
Diesel Engine

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

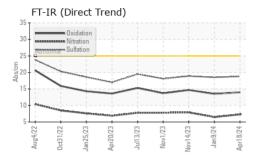
Fluid Condition

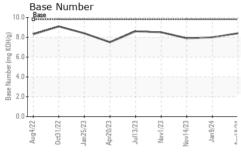
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

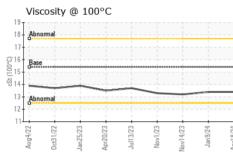
une)							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0116280	GFL0094877	GFL0094865	
Sample Date		Client Info		18 Apr 2024	09 Jan 2024	14 Nov 2023	
Machine Age	hrs	Client Info		5070	4316	3903	
Oil Age	hrs	Client Info		210	413	606	
Oil Changed		Client Info		Not Changd	Changed	Changed	
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	17	13	19	
Chromium	ppm	ASTM D5185m	>20	1	1	2	
Nickel	ppm	ASTM D5185m	>4	<1	0	0	
Titanium	ppm	ASTM D5185m		<1	0	0	
Silver	ppm	ASTM D5185m	>3	<1	0	0	
Aluminum	ppm	ASTM D5185m	>20	7	7	9	
Lead	ppm	ASTM D5185m	>40	<1	0	<1	
Copper	ppm	ASTM D5185m	>330	<1	<1	1	
Tin	ppm	ASTM D5185m	>15	<1	0	0	
Vanadium	ppm	ASTM D5185m		<1	0	0	
Cadmium	ppm	ASTM D5185m		<1	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	3	3	3	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	61	60	59	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	864	948	927	
Calcium	ppm	ASTM D5185m	1070	1035	1080	1056	
Phosphorus	ppm	ASTM D5185m	1150	1029	997	881	
Zinc	ppm	ASTM D5185m	1270	1168	1204	1198	
Sulfur	ppm	ASTM D5185m	2060	3071	3003	2764	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	2	3	
Sodium	ppm	ASTM D5185m		2	2	4	
Potassium	ppm	ASTM D5185m	>20	19	15	20	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.5	0.4	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	7.3	6.5	7.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	18.5	18.9	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0	13.5	14.7	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.4	8.0	7.9	
(214)							



OIL ANALYSIS REPORT



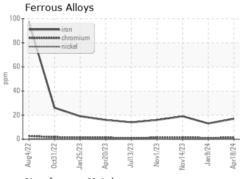


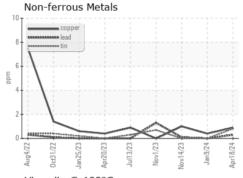


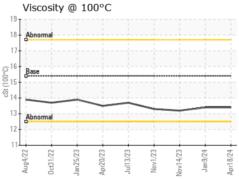
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

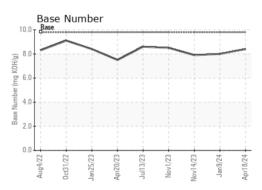
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.4	13.2	

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0116280 Lab Number : 06156742 Unique Number : 10992165

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 22 Apr 2024

Tested : 23 Apr 2024 Diagnosed : 23 Apr 2024 - Wes Davis

GFL Environmental - 625 - Harrison Hauling

4102 Industrial Pkwy Harrison, MI US 48625

Contact: Glenda Standen gstanden@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: GFL625 [WUSCAR] 06156742 (Generated: 04/23/2024 19:28:52) Rev: 1

Submitted By: also GFL632 and GFL638 - Glenda Standen

T:

F: