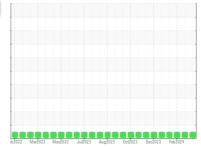


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
811045
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.

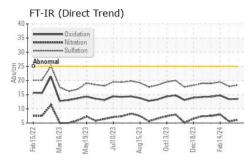
Fluid Condition

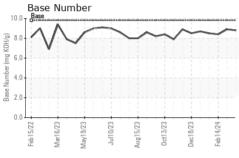
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

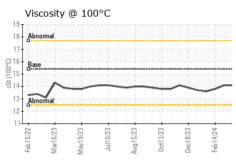
GAL) 6.022 May2023 May2023 Jul2023 Aug2023 Oct2023 Oct2023 Feb2024								
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		GFL0115392	GFL0115364	GFL0110884		
Sample Date		Client Info		04 Apr 2024	06 Mar 2024	14 Feb 2024		
Machine Age	hrs	Client Info		7106	6935	6804		
Oil Age	hrs	Client Info		171	131	115		
Oil Changed		Client Info		Changed	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	13	8	23		
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1		
Nickel	ppm	ASTM D5185m	>4	<1	<1	0		
Titanium	ppm	ASTM D5185m		<1	0	<1		
Silver	ppm	ASTM D5185m	>3	<1	0	0		
Aluminum	ppm	ASTM D5185m	>20	9	6	11		
Lead	ppm	ASTM D5185m	>40	0	0	<1		
Copper	ppm	ASTM D5185m	>330	<1	<1	<1		
Tin	ppm	ASTM D5185m	>15	<1	<1	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	14	17	5		
Barium	ppm	ASTM D5185m	0	2	0	0		
Molybdenum	ppm	ASTM D5185m	60	59	65	60		
Manganese	ppm	ASTM D5185m	0	<1	0	<1		
Magnesium	ppm	ASTM D5185m	1010	878	968	977		
Calcium	ppm	ASTM D5185m	1070	1057	1127	1110		
Phosphorus	ppm	ASTM D5185m	1150	958	1086	1063		
Zinc	ppm	ASTM D5185m	1270	1136	1236	1271		
Sulfur	ppm	ASTM D5185m	2060	3031	3416	3151		
CONTAMINAN	NTS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	4	4	6		
Sodium	ppm	ASTM D5185m		2	3	4		
Potassium	ppm	ASTM D5185m	>20	13	6	11		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>3	0.5	0.4	0.8		
Nitration	Abs/cm	*ASTM D7624	>20	6.1	5.6	8.0		
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	17.9	19.5		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.5	13.4	14.7		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.8	8.9	8.4		

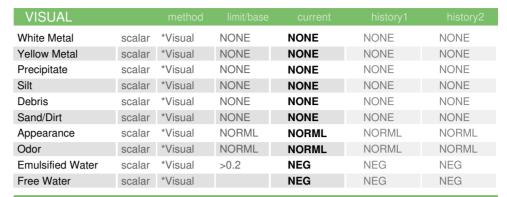


OIL ANALYSIS REPORT



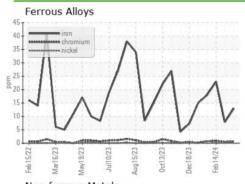


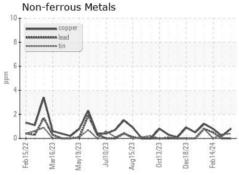


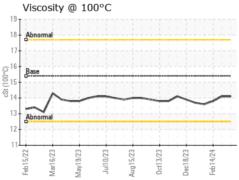


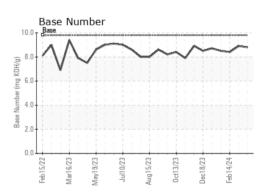
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	14.1	13.8	

GRAPHS













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0115392 Lab Number : 06143543 Unique Number : 10968351

Test Package : FLEET

Tested

Received : 09 Apr 2024 : 10 Apr 2024 Diagnosed

: 10 Apr 2024 - Wes Davis

4005 Hwy 161 N. Little Rock, AR US 72117

GFL Environmental - 814 - Little Rock Hauling

Contact: Brad Koenig bkoenig@gflenv.com

To discuss this sample report, contact Customer Service at 1-800-237-1369. st - 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: GFL814 [WUSCAR] 06143543 (Generated: 04/10/2024 13:37:46) Rev: 1

Submitted By: Nicole Walls

T:

F: