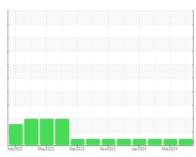


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
413027
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

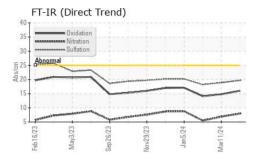
Fluid Condition

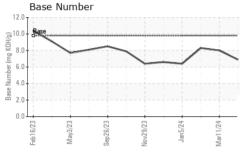
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

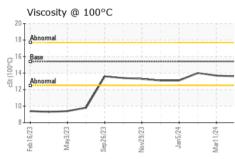
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0115395	GFL0115360	GFL0110895			
Sample Date		Client Info		04 Apr 2024	11 Mar 2024	29 Jan 2024			
Machine Age	hrs	Client Info		1468	1285	1135			
Oil Age	hrs	Client Info		183	150	0			
Oil Changed		Client Info		Changed	Changed	Changed			
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		NEG	NEG	NEG			
Glycol		WC Method	70.2	NEG	NEG	NEG			
	0		li.ee:4/le.e.e.						
WEAR METALS		method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>100	12	10	0			
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1			
Nickel	ppm	ASTM D5185m	>4	6	4	1			
Titanium	ppm	ASTM D5185m		0	0	0			
Silver	ppm	ASTM D5185m	>3	<1	0	0			
Aluminum	ppm	ASTM D5185m	>20	5	3	2			
Lead	ppm	ASTM D5185m	>40	<1	<1	0			
Copper	ppm	ASTM D5185m	>330	70	53	44			
Tin	ppm	ASTM D5185m	>15	1	<1	0			
Vanadium	ppm	ASTM D5185m		0	0	0			
Cadmium	ppm	ASTM D5185m		0	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	4	8	8			
Barium	ppm	ASTM D5185m	0	0	0	0			
Molybdenum	ppm	ASTM D5185m	60	57	64	59			
Manganese	ppm	ASTM D5185m	0	<1	<1	<1			
Magnesium	ppm	ASTM D5185m	1010	905	998	919			
Calcium	ppm	ASTM D5185m	1070	1074	1210	1057			
Phosphorus	ppm	ASTM D5185m	1150	978	1117	983			
Zinc	ppm	ASTM D5185m	1270	1208	1310	1201			
Sulfur	ppm	ASTM D5185m	2060	3159	3923	2993			
CONTAMINAN	TS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>25	5	5	3			
Sodium	ppm	ASTM D5185m		4	2	0			
Potassium	ppm	ASTM D5185m	>20	13	8	4			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.1			
Nitration	Abs/cm	*ASTM D7624	>20	8.0	6.9	5.5			
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	18.9	18.2			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0	14.8	14.1			
Base Number (BN)	mg KOH/g	ASTM D2896		6.9	8.0	8.3			
_ ===== (== (== (== (== (== (== (99		5.0	0.0	0.0	0.0			

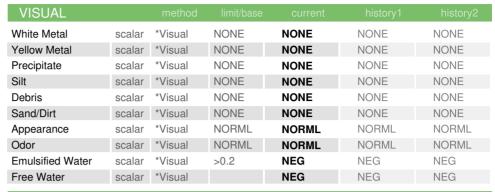


OIL ANALYSIS REPORT



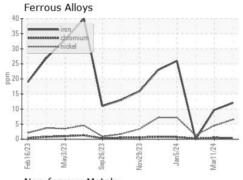


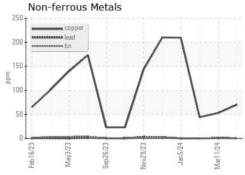


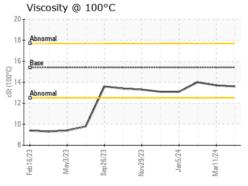


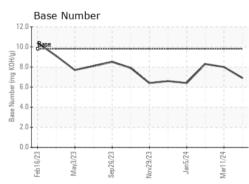
FLUID PROP	ERIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.7	14.0

GRAPHS













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0115395 Lab Number : 06145165

Test Package : FLEET

Unique Number : 10969973

Received : 10 Apr 2024 **Tested**

: 11 Apr 2024 Diagnosed : 11 Apr 2024 - Wes Davis

GFL Environmental - 814 - Little Rock Hauling

4005 Hwy 161 N. Little Rock, AR US 72117

Contact: Brad Koenig bkoenig@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: GFL814 [WUSCAR] 06145165 (Generated: 04/11/2024 17:45:32) Rev: 1

Submitted By: Nicole Walls

T:

F: