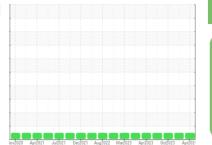


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **825025-176**

Diesel Engine

PETRO CANADA DURON SHP 15W40 (39 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Woor

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

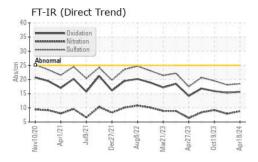
Fluid Condition

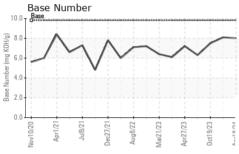
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

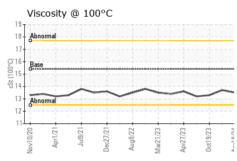
WYZOZO AwyZOZZ JuZÓZZI JuZÓZZI AwyZOZZ MayZOZZ AwyZOZZ AwyZOZZ AwyZOZZ AwyZOZZ								
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		GFL0114607	GFL0096507	GFL0090911		
Sample Date		Client Info		18 Apr 2024	26 Feb 2024	19 Oct 2023		
Machine Age	hrs	Client Info		21113	21078	20740		
Oil Age	hrs	Client Info		373	338	491		
Oil Changed		Client Info		Changed	Not Changd	Changed		
Sample Status				NORMAL	NORMAL	NORMAL		
CONTAMINAT	ION	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 METAL	_S	method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>120	8	3	8		
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1		
Nickel	ppm	ASTM D5185m	>5	<1	0	<1		
Titanium	ppm	ASTM D5185m	>2	<1	0	<1		
Silver	ppm	ASTM D5185m	>2	<1	0	0		
Aluminum	ppm	ASTM D5185m	>20	4	2	3		
Lead	ppm	ASTM D5185m	>40	<1	<1	<1		
Copper	ppm	ASTM D5185m	>330	4	3	3		
Tin	ppm	ASTM D5185m	>15	1	<1	<1		
Vanadium	ppm	ASTM D5185m		<1	0	0		
Cadmium	ppm	ASTM D5185m		<1	0	<1		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	0	8	9	9		
Barium	ppm	ASTM D5185m	0	0	0	3		
Molybdenum	ppm	ASTM D5185m	60	58	55	63		
Manganese	ppm	ASTM D5185m	0	<1	<1	0		
Magnesium	ppm	ASTM D5185m	1010	855	855	897		
Calcium	ppm	ASTM D5185m	1070	1086	1001	1068		
Phosphorus	ppm	ASTM D5185m	1150	1036	1035	982		
Zinc	ppm	ASTM D5185m	1270	1167	1195	1230		
Sulfur	ppm	ASTM D5185m	2060	3243	3014	3286		
CONTAMINAN	NTS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	6	5	8		
Sodium	ppm	ASTM D5185m		2	2	<1		
Potassium	ppm	ASTM D5185m	>20	5	2	10		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>4	0.5	0.4	0.8		
Nitration	Abs/cm	*ASTM D7624		8.8	7.9	9.2		
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	18.1	19.5		
FLUID DEGRA	DATION		limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	15.3	15.9		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.0	8.1	7.5		

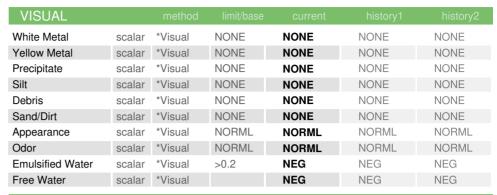


OIL ANALYSIS REPORT



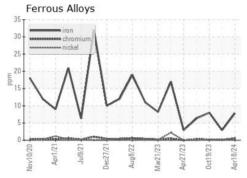


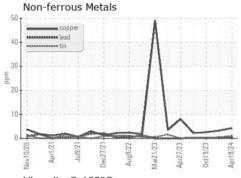


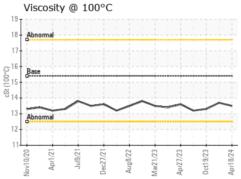


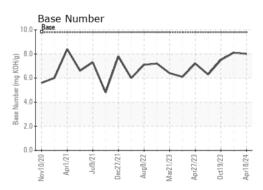
FLUID PROPE	RHES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.7	13.3

GRAPHS













Certificate 12367

Laboratory Sample No.

Test Package : FLEET

: GFL0114607 Lab Number : 06156670 Unique Number : 10992093

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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

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

GFL Environmental - 656 - Culpeper Hauling

15490 Montanus Drive Culpeper, VA US 22701

Contact: Matt Hanna mhanna@gflenv.com T: (540)727-0887

 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: GFL656 [WUSCAR] 06156670 (Generated: 04/23/2024 16:52:34) Rev: 1

Submitted By: Matt Hanna