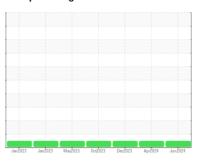


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 913154 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.

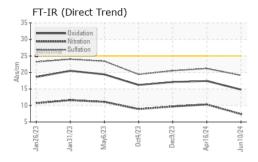
Fluid Condition

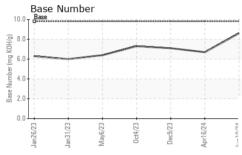
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

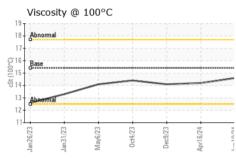
GAL)		Jan2023	Jan2023 May2023	Oct2023 Dec2023 Apr2024	Jun2024				
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0125251	GFL0114432	GFL0100475			
Sample Date		Client Info		10 Jun 2024	16 Apr 2024	09 Dec 2023			
Machine Age	hrs	Client Info		4563	72902	3599			
Oil Age	hrs	Client Info		0	14245	3599			
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	>110	10	12	10			
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1			
Nickel	ppm	ASTM D5185m	>2	<1	<1	0			
Titanium	ppm	ASTM D5185m		<1	<1	0			
Silver	ppm	ASTM D5185m	>2	<1	<1	0			
Aluminum	ppm	ASTM D5185m	>25	4	5	3			
Lead	ppm	ASTM D5185m	>45	0	<1	<1			
Copper	ppm	ASTM D5185m	>85	1	2	1			
Tin	ppm	ASTM D5185m	>4	<1	1	0			
Vanadium	ppm	ASTM D5185m		<1	<1	<1			
Cadmium	ppm	ASTM D5185m		<1	<1	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	<1	0	1			
Barium	ppm	ASTM D5185m	0	<1	0	0			
Molybdenum	ppm	ASTM D5185m	60	58	62	58			
Manganese	ppm	ASTM D5185m	0	<1	<1	0			
Magnesium	ppm	ASTM D5185m	1010	944	942	970			
Calcium	ppm	ASTM D5185m	1070	1038	1086	1066			
Phosphorus	ppm	ASTM D5185m	1150	1129	1121	1030			
Zinc	ppm	ASTM D5185m	1270	1245	1269	1313			
Sulfur	ppm	ASTM D5185m	2060	2949	3268	2421			
CONTAMINAN	ITS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>30	5	5	5			
Sodium	ppm	ASTM D5185m		1	0	4			
Potassium	ppm	ASTM D5185m	>20	7	7	3			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>3	0.3	0.6	0.4			
Nitration	Abs/cm	*ASTM D7624	>20	7.4	10.3	9.7			
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	21.2	20.5			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	17.4	17.1			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	6.7	7.1			
	0								

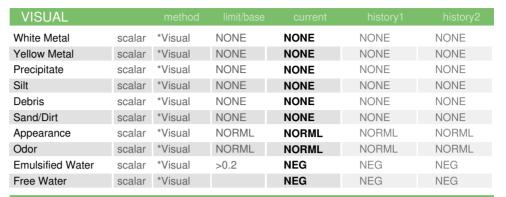


OIL ANALYSIS REPORT



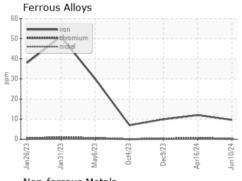


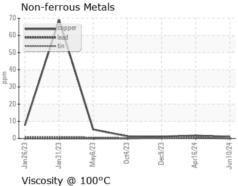


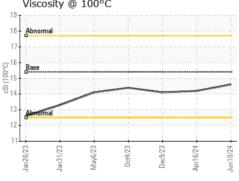


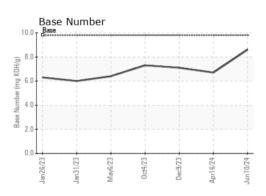
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.6	14.2	14.1

GRAPHS













Certificate 12367

Laboratory Sample No.

Test Package : FLEET

: GFL0125251 Lab Number : 06212929 Unique Number : 11085793

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** Diagnosed

: 17 Jun 2024 : 19 Jun 2024

: 19 Jun 2024 - Wes Davis

GFL Environmental - 865 - East Mount Hauling 7213 East Mount Houston Road

Houston, TX US 77050 Contact: Saul Castillo

saul.castillo@gflenv.com T:

* - 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: GFL865 [WUSCAR] 06212929 (Generated: 06/22/2024 03:09:06) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

F: