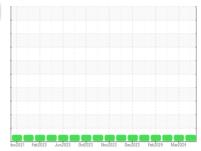


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

411026-411026

Component
Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

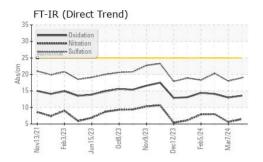
Fluid Condition

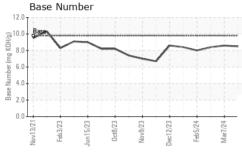
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

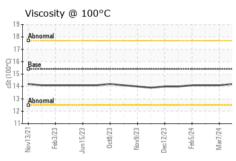
GAL)		Vov2021 Feb	2023 Jun 2023 Oct2023	Nov2023 Dec2023 Feb2024	Mar2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0104810	GFL0104789	GFL0104947
Sample Date		Client Info		28 Mar 2024	07 Mar 2024	13 Feb 2024
Machine Age	hrs	Client Info		7330	7005	7005
Oil Age	hrs	Client Info		7005	6703	0
Oil Changed		Client Info		N/A	Changed	N/A
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	7	5	14
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	7	2	6
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	0	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	0	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	1	2	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	60	53	53	55
Manganese	ppm		0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	862	857	852
Calcium	ppm	ASTM D5185m	1070	924	971	947
Phosphorus	ppm	ASTM D5185m	1150	996	986	927
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1270 2060	1173 3504	1142 3040	1083 2639
	ppm					
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	1	2	2
Sodium	ppm	ASTM D5185m	00	3	4	7
Potassium	ppm	ASTM D5185m		10	2	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9	0.5	1.3
Nitration	Abs/cm	*ASTM D7624		6.5	5.6	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	18.0	20.3
FLUID DEGRAI	DATION	method				history2
1 LOID DEGITION						
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25	13.6 8.5	13.0 8.6	14.1 8.4

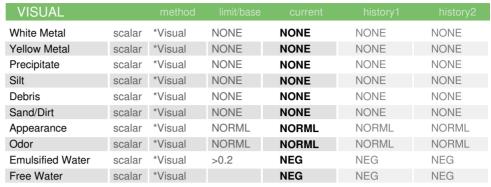


OIL ANALYSIS REPORT



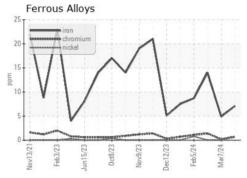


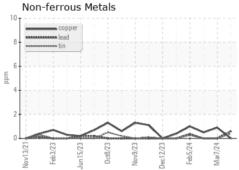


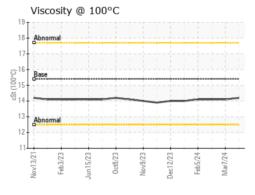


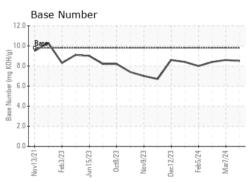
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	14.1	14.1

GRAPHS













Certificate 12367

Laboratory Sample No.

Test Package : FLEET

: GFL0104810 Lab Number : 06139568 Unique Number : 10964376

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 05 Apr 2024 **Tested** : 05 Apr 2024 Diagnosed : 05 Apr 2024 - Wes Davis

GFL Environmental - 820 - Joplin Hauling 3700 West 7th Street Joplin, MO

US 64801 Contact: James Jarrett jjarrett@gflenv.com T: (417)310-2802

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)

Submitted By: VINCE ASTI