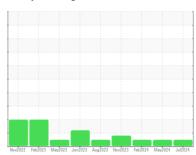


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 813014 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

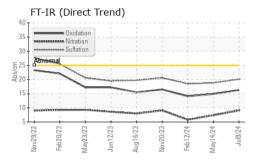
Fluid Condition

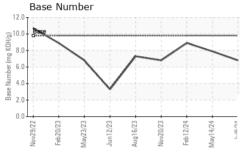
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

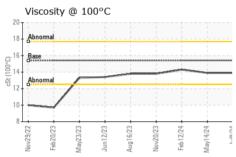
GAL)		Nov2022 Feb	2023 May2023 Jun2023 .	Aug2023 Nov2023 Feb2024 May20	24 Jul2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0121131	GFL0121140	GFL0103118
Sample Date		Client Info		09 Jul 2024	14 May 2024	12 Feb 2024
Machine Age	hrs	Client Info		2951	2709	1992
Oil Age	hrs	Client Info		550	300	600
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	12	8	6
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	8	8	4
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	<1	2
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	4	4	2
Tin	ppm	ASTM D5185m	>15	0	<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	9	10	32
Barium	ppm	ASTM D5185m	0	0	0	<1
Molybdenum	ppm	ASTM D5185m	60	58	60	60
Manganese	ppm	ASTM D5185m	0	0	<1	0
Magnesium	ppm	ASTM D5185m	1010	961	1017	866
Calcium	ppm	ASTM D5185m	1070	1145	1178	1153
Phosphorus	ppm	ASTM D5185m	1150	1081	1054	884
Zinc	ppm	ASTM D5185m	1270	1340	1324	1281
Sulfur	ppm	ASTM D5185m	2060	3528	3714	2960
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	7	4
Sodium	ppm	ASTM D5185m		2	1	0
Potassium	ppm	ASTM D5185m		0	<1	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.6	0.4	0.2
Nitration	Abs/cm	*ASTM D7624		9.1	7.4	5.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	18.8	18.5
	ATION	method				history2
FLUID DEGRAI	JATION		IIIIIIIIIIIII	current		
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	14.9	14.1

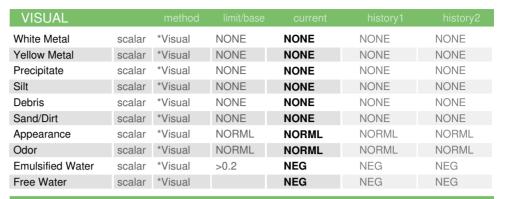


OIL ANALYSIS REPORT



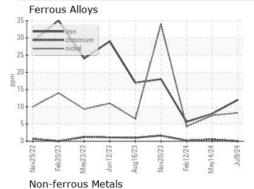


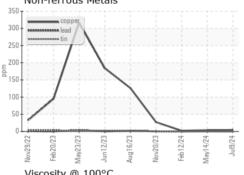


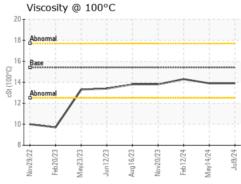


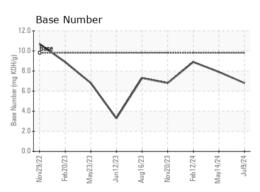
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.9	14.3

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06232918 Unique Number : 11116411

: GFL0121131

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 11 Jul 2024

Tested : 11 Jul 2024 Diagnosed

: 11 Jul 2024 - Wes Davis

GFL Environmental - 683 - Ruckersville Hauling 261 INDUSTRIAL DR Ruckersville, VA US 22698

Contact: Jaf Finney jfinney@gflenv.com T: (434)990-4972

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)