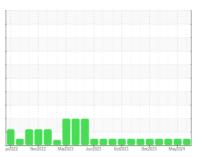


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **227070-16**

Diesel Engine

PETRO CANADA DURON SHP 15W40 (3 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

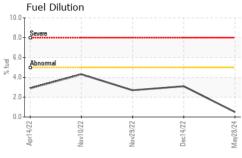
Fluid Condition

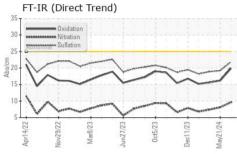
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

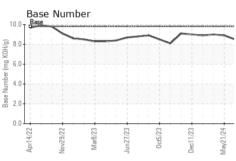
AL)		pr2022 No	ov2022 Mar2023 Jui	n2023 Oct2023 Dec2023	May2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0118695	GFL0118671	GFL0118712
Sample Date		Client Info		28 May 2024	21 May 2024	29 Apr 2024
Machine Age	mls	Client Info		7363	36013	359143
Oil Age	mls	Client Info		400	600	150
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
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	>80	8	2	3
Chromium	ppm	ASTM D5185m	>5	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>30	2	<1	0
Lead	ppm	ASTM D5185m	>30	<1	0	<1
Copper	ppm	ASTM D5185m	>150	<1	0	0
Tin	ppm	ASTM D5185m	>5	<1	0	<1
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	0	0
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	67	60	63
Manganese	ppm	ASTM D5185m	0	0	0	0
Magnesium	ppm	ASTM D5185m	1010	1048	985	1054
Calcium	ppm	ASTM D5185m	1070	1213	1149	1208
Phosphorus	ppm	ASTM D5185m	1150	1195	1104	1151
Zinc	ppm	ASTM D5185m	1270	1343	1244	1388
Sulfur	ppm	ASTM D5185m	2060	3526	3601	3955
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	5	1	2
Sodium	ppm	ASTM D5185m		<1	2	0
Potassium	ppm	ASTM D5185m	>20	2	0	0
Fuel	%	ASTM D3524	>5	0.5	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	9.6	8.1	7.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	19.2	18.9
FLUID DEGRA	OITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.9	16.2	15.6
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25 9.8	19.9 8.5	16.2 8.9	15.6 9.0

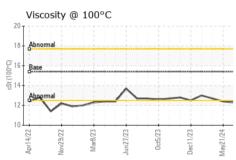


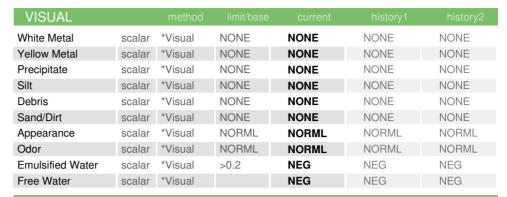
OIL ANALYSIS REPORT





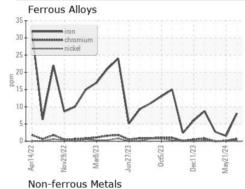


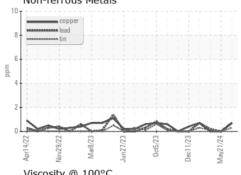


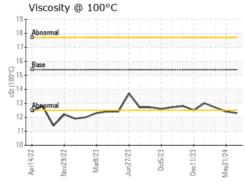


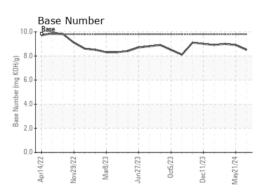
FLUID PROPE	:RHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.3	12.4	12.7

GRAPHS













Certificate 12367

Laboratory Sample No.

Lab Number : 06196288

Unique Number : 11058411

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0118695 Received

: 31 May 2024 **Tested** : 05 Jun 2024

Diagnosed : 05 Jun 2024 - Wes Davis Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

US 36869 Contact: DEAN PEACE JR dean.peace@gflenv.com T:

GFL Environmental - 166 - Phenix City

 st - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F:

18 Old Brickyard Rd

Phenix City, AL