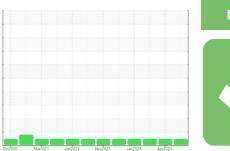


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **825020-143**

Diesel Engine

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

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

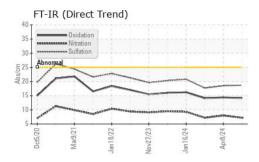
Fluid Condition

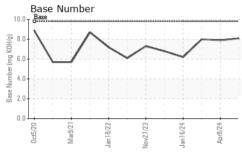
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

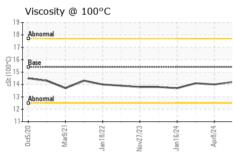
LIK)		0ct2020	Mar2021 Jan2022	Nov2023 Jan2024 A	or2024				
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0127218	GFL0116554	GFL0111890			
Sample Date		Client Info		04 Jul 2024	08 Apr 2024	13 Mar 2024			
Machine Age	mls	Client Info		825020	825020	825020			
Oil Age	mls	Client Info		14735	14735	14735			
Oil Changed		Client Info		Changed	Not Changd	Not Changd			
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	13	8	5			
Chromium	ppm	ASTM D5185m	>20	<1	1	<1			
Nickel	ppm	ASTM D5185m	>5	<1	<1	0			
Titanium	ppm	ASTM D5185m	>2	1	<1	0			
Silver	ppm	ASTM D5185m	>2	<1	0	0			
Aluminum	ppm	ASTM D5185m	>20	4	3	3			
Lead	ppm	ASTM D5185m	>40	<1	1	0			
Copper	ppm	ASTM D5185m	>330	2	2	<1			
Tin	ppm	ASTM D5185m	>15	<1	1	0			
Vanadium	ppm	ASTM D5185m		<1	<1	0			
Cadmium	ppm	ASTM D5185m		<1	<1	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	12	8	10			
Barium	ppm	ASTM D5185m	0	0	<1	0			
Molybdenum	ppm	ASTM D5185m	60	59	56	63			
Manganese	ppm	ASTM D5185m	0	<1	<1	0			
Magnesium	ppm	ASTM D5185m	1010	973	936	975			
Calcium	ppm	ASTM D5185m	1070	1168	1145	1231			
Phosphorus	ppm	ASTM D5185m	1150	1057	1119	1166			
Zinc	ppm	ASTM D5185m	1270	1314	1265	1294			
Sulfur	ppm	ASTM D5185m	2060	3205	3587	3496			
CONTAMINANTS method limit/base current history1 history2									
Silicon	ppm	ASTM D5185m	>25	5	5	4			
Sodium	ppm	ASTM D5185m		2	8	0			
Potassium	ppm	ASTM D5185m	>20	5	14	3			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>4	0.3	0.2	0.2			
Nitration	Abs/cm	*ASTM D7624	>20	7.2	8.0	7.2			
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	18.5	17.7			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	14.4	14.1			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.1	7.9	8.0			
	0								

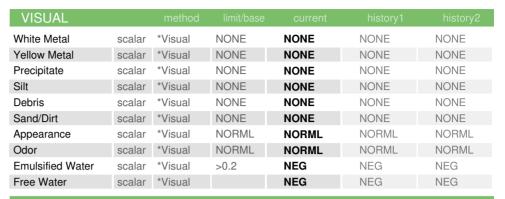


OIL ANALYSIS REPORT



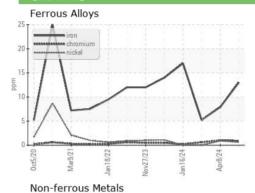


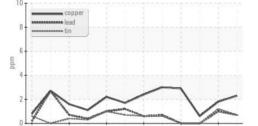


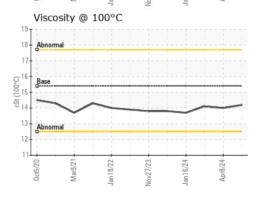


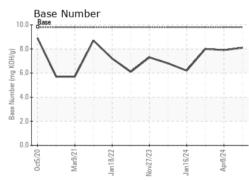
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	14.0	14.1

GRAPHS













Certificate 12367

Laboratory Sample No. Test Package : FLEET

Lab Number : 06229892 Unique Number : 11113385

: GFL0127218

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 08 Jul 2024 **Tested** : 09 Jul 2024 Diagnosed

: 09 Jul 2024 - Don Baldridge

GFL Environmental - 652 - Fredericksburg Hauling

10954 Houser Drive Fredericksburg, VA US 22408

Contact: WILLIAM MILO wmilo@gflenv.com

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)

Report Id: GFL652 [WUSCAR] 06229892 (Generated: 07/09/2024 18:37:46) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

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