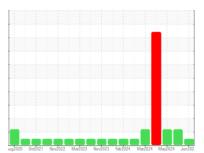


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id

928065-205250

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

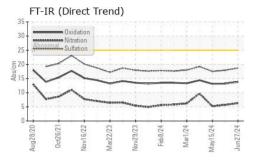
Fluid Condition

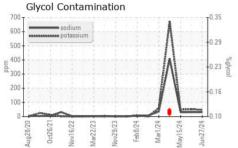
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

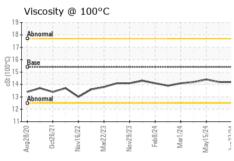
JAL)		ug2020 Oct2	021 Nov2022 Mar2023	Nov2023 Feb2024 Mar2024 May	2024 Jun202		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0093477	GFL0093512	GFL0093428	
Sample Date		Client Info		27 Jun 2024	06 Jun 2024	15 May 2024	
Machine Age	hrs	Client Info		33077	32957	32809	
Oil Age	hrs	Client Info		283	163	100	
Oil Changed		Client Info		Changed	Not Changd	Not Changd	
Sample Status				NORMAL	ABNORMAL	ABNORMAL	
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	
WEAR METAL	.S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	9	6	6	
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	0	
Titanium	ppm	ASTM D5185m		8	8	8	
Silver	ppm	ASTM D5185m	>3	0	0	<1	
Aluminum	ppm	ASTM D5185m	>20	2	2	2	
Lead	ppm	ASTM D5185m	>40	0	0	0	
Copper	ppm	ASTM D5185m	>330	2	2	2	
Tin	ppm	ASTM D5185m	>15	0	0	0	
Vanadium	ppm	ASTM D5185m		0	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	6	8	8	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	62	61	62	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	1030	917	983	
Calcium	ppm	ASTM D5185m	1070	1278	1108	1233	
Phosphorus	ppm	ASTM D5185m	1150	1128	1012	1094	
Zinc	ppm	ASTM D5185m	1270	1398	1237	1327	
Sulfur	ppm	ASTM D5185m	2060	4064	3523	4030	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	5	4	6	
Sodium	ppm	ASTM D5185m		30	31	30	
Potassium	ppm	ASTM D5185m	>20	48	<u></u> 51	4 9	
Glycol	%	*ASTM D2982		NEG	NEG	NEG	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	6.3	5.7	5.2	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	17.9	17.5	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.8	13.2	13.1	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.8	8.7	9.0	
(= . •)	3 29			-			

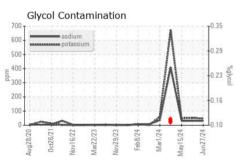


OIL ANALYSIS REPORT





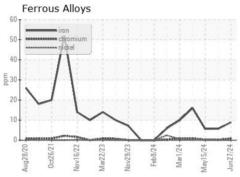


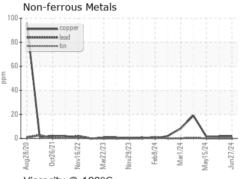


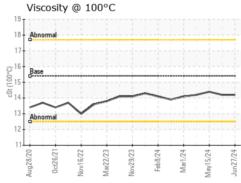
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

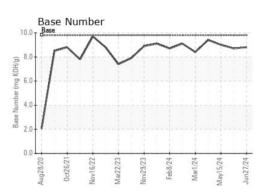
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	14.2	14.4

GRAPHS













Laboratory Sample No.

: GFL0093477 Lab Number : 06224346 Unique Number : 11102543

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

: 01 Jul 2024 **Tested** : 02 Jul 2024 Diagnosed

: 02 Jul 2024 - Jonathan Hester

1001 South Rockwell Oklahoma City, OK US 73128 Contact: Andy Smith

GFL Environmental - 891 - Oklahoma City Hauling

Test Package : FLEET (Additional Tests: Glycol) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

andrew.smith@gflenv.com T: (405)306-1651

* - 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)