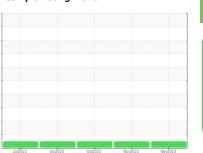


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id 913063 Component Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (33 QTS)

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

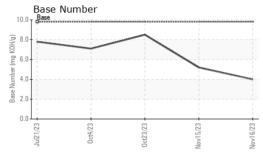
Fluid Condition

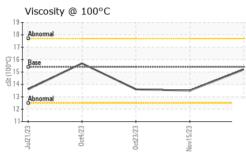
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		JUIZUZS	0ct2023	Oct2023 Nov2023	Nov2023	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0059281	GFL0059267	GFL0059129
Sample Date		Client Info		16 Nov 2023	15 Nov 2023	23 Oct 2023
Machine Age	hrs	Client Info		17268	17006	15731
Oil Age	hrs	Client Info		17268	11556	11199
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	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	73	63	3
Chromium	ppm	ASTM D5185m	>20	3	2	0
Nickel	ppm	ASTM D5185m	>5	<1	5	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	2	1
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	3	14	0
Tin	ppm	ASTM D5185m	>15	0	2	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	<1	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	65	59	55
Manganese	ppm	ASTM D5185m	0	<1	1	0
Magnesium	ppm	ASTM D5185m	1010	1063	878	895
Calcium	ppm	ASTM D5185m	1070	1177	1033	1034
Phosphorus	ppm	ASTM D5185m	1150	1065	905	949
Zinc	ppm	ASTM D5185m	1270	1347	1200	1177
Sulfur	ppm	ASTM D5185m	2060	2626	1804	2753
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	15	6	9
Sodium	ppm	ASTM D5185m		11	7	4
Potassium	ppm	ASTM D5185m	>20	3	2	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	1.3	1.3	0.1
Nitration	Abs/cm	*ASTM D7624	>20	15.9	10.9	5.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	30.0	23.7	17.8
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	32.1	21.5	13.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	4.0	5.2	8.5



OIL ANALYSIS REPORT

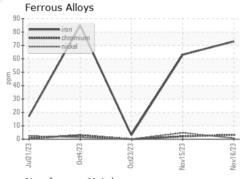


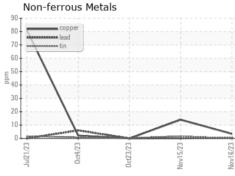


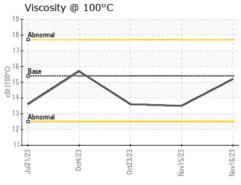
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

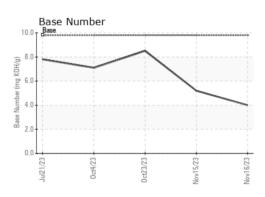
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	15.2	13.5	13.6

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

: 06014774 Unique Number : 10753918 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0059281

Received : 22 Nov 2023 Diagnosed : 25 Nov 2023 Diagnostician : Don Baldridge GFL Environmental - 410 - Michigan West 39000 Van Born Rd

Wayne, MI US 48184 Contact: Belal Dgheish bdgheish@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) T: (734)714-2340