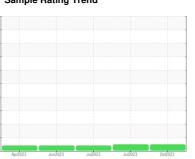


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id 913155 Component Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (--- 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

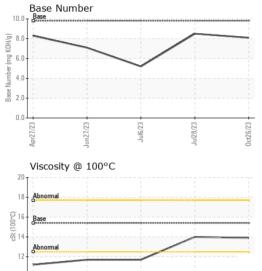
Fluid Condition

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

M SHP 15W40 (Q13)	AprZ023	Jun2023	Jul2023 Jul2023	Oct2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0080044	GFL0087083	GFL0087088
Sample Date		Client Info		26 Oct 2023	28 Jul 2023	06 Jul 2023
Machine Age	hrs	Client Info		1679	1061	8854
Oil Age	hrs	Client Info		177	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	11	3	74
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m		8	3	62
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	4	<1	28
Tin	ppm	ASTM D5185m	>15	<1	<1	1
Vanadium	ppm	ASTM D5185m	710	0	<1	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	0	16
Barium	ppm	ASTM D5185m	0	4	0	0
Molybdenum	ppm	ASTM D5185m	60	53	57	13
Manganese	ppm	ASTM D5185m	0	<1	<1	3
Magnesium	ppm	ASTM D5185m	1010	858	958	777
Calcium	ppm	ASTM D5185m	1070	1029	1075	1425
Phosphorus	ppm	ASTM D5185m	1150	976	1010	762
Zinc	ppm	ASTM D5185m	1270	1110	1278	899
Sulfur	ppm	ASTM D5185m	2060	3285	3669	3458
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	2	13
Sodium	ppm	ASTM D5185m		0	3	5
Potassium	ppm	ASTM D5185m	>20	26	7	154
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0.2	0.5
Nitration	Abs/cm	*ASTM D7624	>20	6.6	5.7	11.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	18.2	24.7
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0	14.4	19.8
Base Number (BN)	mg KOH/g	ASTM D2896		8.1	8.5	5.2
(=14)	39					



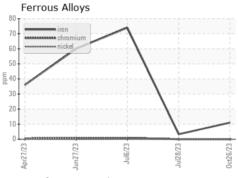
OIL ANALYSIS REPORT

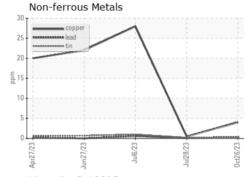


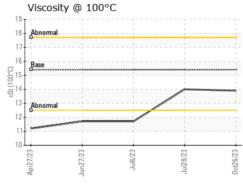
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

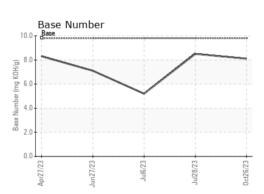
I LOID I HOI L	ITTLO					
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	14.0	▲ 11.7

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number** Test Package : FLEET

: GFL0080044 : 05994904 : 10723264

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 31 Oct 2023 Diagnosed : 01 Nov 2023

Diagnostician : Wes Davis

GFL Environmental - 844 - Princeton Hauling 10129 Highway 62 West

Princeton, KY US 42445 Contact: Kenneth Bigers

kbigers@gflenv.com T: (270)970-0371

* - 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)