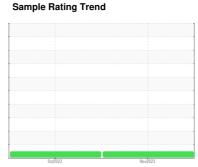


OIL ANALYSIS REPORT







Machine Id **371M** Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (36 QTS)

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

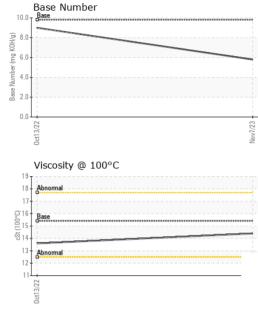
Fluid Condition

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

QTS)			0ct2022	Nov2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0059145	GFL0059180	
Sample Date		Client Info		07 Nov 2023	13 Oct 2022	
Machine Age	hrs	Client Info		13980	11563	
Oil Age	hrs	Client Info		2417	11563	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron		ASTM D5185m	>100	72	27	,
Chromium	ppm	ASTM D5185m	>20	2	2	
Nickel	ppm	ASTM D5185m	>4	<1	0	
	ppm	ASTM D5185m	>4	0	<1	
Titanium	ppm		. 0	3	0	
Silver	ppm	ASTM D5185m ASTM D5185m	>3 >20	ა 5	14	
Aluminum	ppm				0	
Lead	ppm	ASTM D5185m	>40	<1	2	
Copper	ppm	ASTM D5185m	>330	6		
Tin	ppm	ASTM D5185m	>15	0	0	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	
Barium	ppm	ASTM D5185m	0	6	0	
Molybdenum	ppm	ASTM D5185m	60	67	53	
Manganese	ppm	ASTM D5185m	0	<1	1	
Magnesium	ppm	ASTM D5185m	1010	944	869	
Calcium	ppm	ASTM D5185m	1070	1185	1007	
Phosphorus	ppm	ASTM D5185m	1150	1040	921	
Zinc	ppm	ASTM D5185m	1270	1269	1203	
Sulfur	ppm	ASTM D5185m	2060	3038	3153	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	14	9	
Sodium	ppm	ASTM D5185m		0	22	
Potassium	ppm	ASTM D5185m	>20	2	3	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	13.2	8.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.0	21.3	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.8	16.6	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.8	9.0	



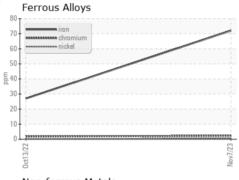
OIL ANALYSIS REPORT

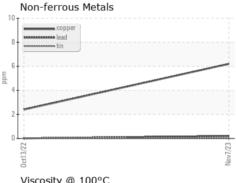


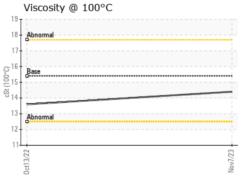
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance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

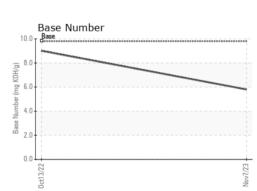
FLUID PROPI		method			riistory i	History2
Visc @ 100°C	cSt	ASTM D445	15.4	14.4	13.6	

GRAPHS











Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10740485 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 06006723

: GFL0059145

Received Diagnosed

: 14 Nov 2023 : 15 Nov 2023 Diagnostician : Don Baldridge

GFL Environmental - 410 - Michigan West 39000 Van Born Rd

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

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)