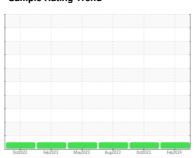


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 411051 Component Diesel Engine Fluid PETRO CANAL

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

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

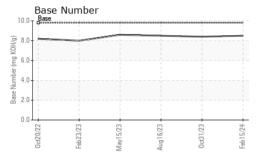
Fluid Condition

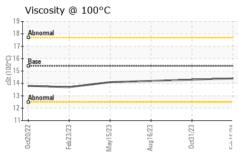
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

			TODEDED MOYEUED	Page Co.		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0112981	GFL0098413	GFL0089500
Sample Date		Client Info		15 Feb 2024	31 Oct 2023	16 Aug 2023
Machine Age	hrs	Client Info		6616	6004	5429
Oil Age	hrs	Client Info		6616	0	0
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
Glycol		WC Method	70.L	NEG	NEG	NEG
				MEG		
WEAR METALS	3	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	9	13	9
Chromium	ppm	ASTM D5185m	>20	1	4	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	4	6
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	7	10	11
Tin	ppm		>15	<1	<1	1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	PP	method	limit/base	current	history1	history2
Boron	ppm		0	0	<1	1
Barium	ppm	ASTM D5185m		3	0	0
Molybdenum		ASTM D5185m	60	60	61	66
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium		ASTM D5185m	1010	951	1048	1082
Calcium	ppm		1070	1030	1137	1172
	ppm					
Phosphorus	ppm	ASTM D5185m	1150	984	882	1100
Zinc	ppm	ASTM D5185m	1270	1214	1292	1411
Sulfur	ppm	ASTM D5185m	2060	3014	2909	3618
CONTAMINANT	ΓS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	4	2
Sodium	ppm	ASTM D5185m		0	2	<1
Potassium	ppm	ASTM D5185m	>20	5	3	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.4	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	7.2	7.1	7.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	19.3	19.3
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1	15.0	15.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.5	8.4	8.5
(2.4)	9 9	J J _ 0 00				



OIL ANALYSIS REPORT

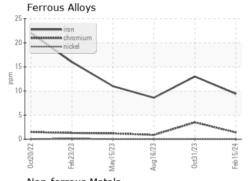


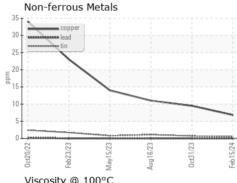


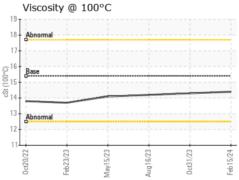
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

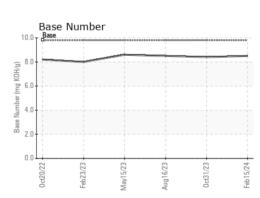
L LLOID PROPI	EHILO	memod			flistory i	History2
Visc @ 100°C	cSt	ASTM D445	15.4	14.4	14.3	14.2

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number : 06094033 Unique Number: 10886886 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0112981 Received

Tested Diagnosed

: 20 Feb 2024 : 21 Feb 2024 : 21 Feb 2024 - Wes Davis

GFL Environmental - 918 - Hartland HC 630 E Industrial Drive

Hartland, WI US 53029

Contact: David McCall david.mccall@gflenv.com T: (262)369-3069

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)