

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 913145

Component Diesel Engine

Fluid PETRO CANADA DURON SHP 15W40 (--- GA

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.

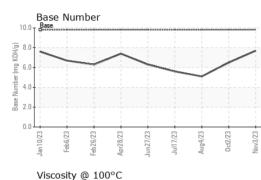
Fluid Condition

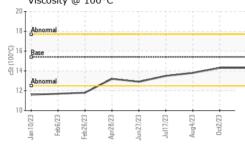
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

AL)		Jan2023 Feb	2023 Feb2023 Apr2023	Junž023 Julž023 Augž023 Octž0	23 Nov2023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0080036	GFL0080048	GFL0087082
Sample Date		Client Info		03 Nov 2023	02 Oct 2023	04 Aug 2023
Machine Age	hrs	Client Info		2135	1908	1532
Dil Age	hrs	Client Info		0	153	0
Dil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	2	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>110	21	57	79
Chromium	ppm	ASTM D5185m	>4	<1	2	3
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium Silver	ppm	ASTM D5185m	>2	<1 0	<1 0	<1 <1
Aluminum	ppm ppm	ASTM D5185m ASTM D5185m	>2	11	30	53
_ead	ppm	ASTM D5185m	>45	0	<1	0
Copper	ppm	ASTM D5185m	>85	4	11	16
Tin	ppm	ASTM D5185m	>4	- <1	<1	1
Vanadium	ppm	ASTM D5185m	~1	0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	4	8
Barium	ppm	ASTM D5185m	0	0	12	0
Volybdenum	ppm	ASTM D5185m	60	57	43	30
Manganese	ppm	ASTM D5185m	0	<1	2	3
Magnesium	ppm	ASTM D5185m	1010	1007	927	923
Calcium	ppm	ASTM D5185m	1070	1178	1180	1361
Phosphorus	ppm	ASTM D5185m	1150	1071	937	940
Zinc	ppm	ASTM D5185m	1270	1313	1149	1186
Sulfur	ppm	ASTM D5185m	2060	2953	2893	3716
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	6	10	12
Sodium	ppm	ASTM D5185m		<1	3	4
Potassium	ppm	ASTM D5185m	>20	20	64	94
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.7	0.9
Nitration	Abs/cm	*ASTM D7624	>20	8.9	10.5	13.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	24.1	28.6
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.7	20.1	24.8

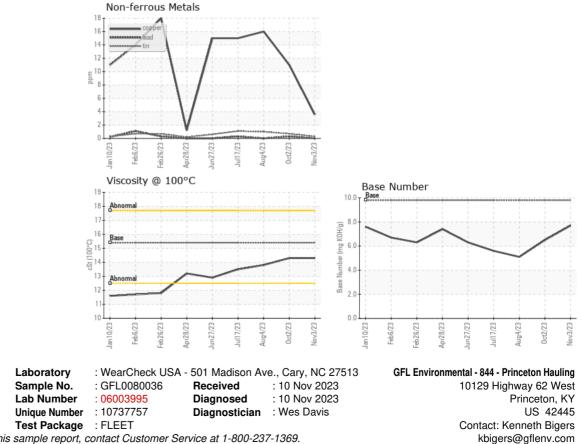


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	14.3	13.8
GRAPHS						
Ferrous Alloys						
80						
/0 - chromium	1					
	1					
50	/					
30						
20			N			
10-						
	and and a second division of					
Jan 10/23	Jun27/23	Juli 1/23	Nov3/23			



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)

Certificate L2367

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F:

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