

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 811043

Component Diesel Engine

Fluid 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.

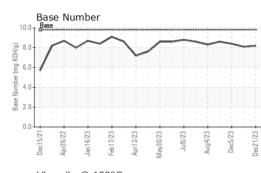
Fluid Condition

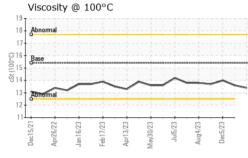
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)									
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0090934	GFL0102993	GFL0103027			
Sample Date		Client Info		21 Dec 2023	18 Dec 2023	05 Dec 2023			
Machine Age	hrs	Client Info		6397	6375	6237			
Oil Age	hrs	Client Info		160	138	73			
Oil Changed		Client Info		Changed	Changed	Changed			
Sample Status				NORMAL	NORMAL	NORMAL			
CONTAMINATI	ON	method	limit/base	current	history1	history2			
Fuel		WC Method	>5	<1.0	<1.0	<1.0			
Water		WC Method	>0.2	NEG	NEG	NEG			
Glycol		WC Method		NEG	NEG	NEG			
WEAR METALS	5	method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>100	26	22	18			
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1			
Nickel	ppm	ASTM D5185m	>4	<1	<1	0			
Titanium	ppm	ASTM D5185m		<1	0	0			
Silver	ppm	ASTM D5185m	>3	0	<1	0			
Aluminum	ppm	ASTM D5185m	>20	7	8	6			
Lead	ppm	ASTM D5185m	>40	0	0	<1			
Copper	ppm	ASTM D5185m	>330	1	1	<1			
Tin	ppm	ASTM D5185m	>15	<1	0	0			
Vanadium	ppm	ASTM D5185m		0	0	0			
Cadmium	ppm	ASTM D5185m		0	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	3	5	2			
Barium	ppm	ASTM D5185m	0	9	<1	0			
Volybdenum	ppm	ASTM D5185m	60	68	65	61			
Vanganese	ppm	ASTM D5185m	0	<1	1	0			
Vagnesium	ppm	ASTM D5185m	1010	960	963	1029			
Calcium	ppm	ASTM D5185m	1070	1085	1034	1119			
Phosphorus	ppm	ASTM D5185m	1150	1050	1126	1141			
Zinc	ppm	ASTM D5185m	1270	1255	1313	1284			
Sulfur	ppm	ASTM D5185m	2060	3192	3103	3172			
CONTAMINAN	ΓS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>25	7	7	6			
Sodium	ppm	ASTM D5185m		2	6	2			
Potassium	ppm	ASTM D5185m	>20	13	10	9			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>3	0.5	0.5	0.4			
Nitration	Abs/cm	*ASTM D7624	>20	7.7	7.5	7.0			
o 16 11	Abs/.1mm	*ASTM D7415	>30	18.8	18.8	18.6			
Sulfation									
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2			
Sulfation FLUID DEGRAD Oxidation	ATION Abs/.1mm	method *ASTM D7414	limit/base	current 14.7	history1 14.5	history2 14.2			

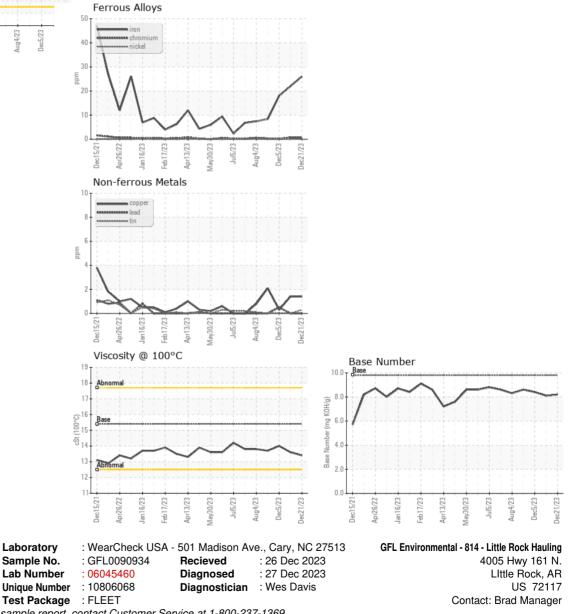


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	13.4	13.6	14.0
GRAPHS						



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