

OIL ANALYSIS REPORT

Sample Rating Trend

GLYCOL

Area SHARP BUS LINES Machine Id INTERNATIONAL 1158 Component

Diesel Engine

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

DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Test for glycol is positive. There is a high concentration of glycol present in the oil. There is a moderate concentration of water present in the oil.

Fluid Condition

Viscosity of sample indicates oil is within SAE 15W50 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The oil is no longer serviceable due to the presence of contaminants.

L)				Sep2023		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0081452		
Sample Date		Client Info		15 Sep 2023		
Machine Age	kms	Client Info		237873		
Oil Age	kms	Client Info		4000		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>2.0	<1.0		
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	24		
Chromium	ppm	ASTM D5185(m)	>20	0		
Nickel	ppm	ASTM D5185(m)	>4	0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>3	1		
Aluminum	ppm	ASTM D5185(m)	>20	3		
_ead	ppm	ASTM D5185(m)	>40	3		
Copper	ppm	ASTM D5185(m)	>330	4		
Гin	ppm	ASTM D5185(m)	>15	0		
Antimony	ppm	ASTM D5185(m)		0		
/anadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	11		
Barium	ppm	ASTM D5185(m)	0	<1		
Molybdenum	ppm	ASTM D5185(m)	60	65		
Manganese	ppm	ASTM D5185(m)	0	0		
Magnesium	ppm	ASTM D5185(m)	1010	683		
Calcium	ppm	ASTM D5185(m)	1070	726		
Phosphorus	ppm	ASTM D5185(m)	1150	646		
Zinc	ppm	ASTM D5185(m)	1270	1023		
Sulfur	ppm	ASTM D5185(m)	2060	1773		
_ithium	ppm	ASTM D5185(m)		<1		
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	12		
Sodium	ppm	ASTM D5185(m)		<u> </u>		
Potassium	ppm	ASTM D5185(m)	>20	<u> </u>		
Glycol	%	ASTM D7922*		e >.70		
,						
INFRA-RED		method	limit/base	current	history1	history2
INFRA-RED	%	method ASTM D7844*	limit/base	current 0.8	history1	history2
INFRA-RED Soot %	% Abs/cm				-	
· ·		ASTM D7844*	>3	0.8		
INFRA-RED Soot % Nitration	Abs/cm Abs/.1mm	ASTM D7844* ASTM D7624* ASTM D7415*	>3 >20	0.8 26.7		
INFRA-RED Soot % Nitration Sulfation	Abs/cm Abs/.1mm	ASTM D7844* ASTM D7624* ASTM D7415*	>3 >20 >30	0.8 26.7 0.0		

Contact/Location: Doug Hall - ICSB902



OIL ANALYSIS REPORT

