

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

Component Diesel Engine

Fluid PETRO CANADA DURON UHP 5W40 (--- 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 condition of the oil is acceptable for the time in service.

Sample Number Client Info Z3 Jan 2024 26 Jun 2020 Machine Age hrs Client Info 6114 6050 Oil Age hrs Client Info 6114 6050 Oil Age hrs Client Info Changed Oil Changed Client Info Changed Changed Sample Status I Imedod Imit/base current historyt historyt Fuel WC Method >5 <1.0 Water WC Method >0.2 NEG NEG Water WC Method >100 20 12 Nickel ppm ASTM 05186m >4 1 Nickel ppm ASTM 05186m >3 0 0 Silver ppm ASTM 05186m >40 -1 < Silver ppm ASTM 05186m<	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 6114 6050 Oil Age hrs Client Info 500 0 Oil Changed Client Info Changed Changed Sample Status Imit/base current History1 History2 Fuel WC Method >5.5 <1.0 <1.0 Water WC Method >0.2 NEG NEG Wear WC Method >0.2 NEG NEG Wear WC Method >0.0 12 Nickel ppm ASTMD518000 >20 6 2 Nickel ppm ASTMD518000 >4 -1 <-1 Silver ppm ASTMD518000 >40 -1 <-1 Copper ppm ASTMD518000 >40 -1 <-1 AstMD518000 0 0 0	Sample Number		Client Info		PC0078385	PC0026258	
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Oil Changed Sample Status Client Info Changed NORMAL Changed NORMAL	Machine Age	hrs	Client Info		6114	6050	
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Silicon ppm ASTM D5185(m) >25 3 8 Sodium ppm ASTM D5185(m) <20	Lithium	ppm	ASTM D5185(m)		<1	<1	
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PotassiumppmASTM D5185(m)>20<1	Silicon	ppm	ASTM D5185(m)	>25	3	8	
INFRA-RED method limit/base current history1 history2	Sodium	ppm	ASTM D5185(m)		4	3	
	Potassium	ppm	ASTM D5185(m)	>20	<1	<1	
Soot % % ASTM D7844* >3 0 0	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	ASTM D7844*	>3	0	0	
Nitration Abs/cm ASTM D7624* >20 11.5 9.5	Nitration	Abs/cm	ASTM D7624*	>20	11.5	9.5	
Sulfation Abs/.1mm ASTM D7415* >30 20.4 24.2	Sulfation	Abs/.1mm	ASTM D7415*	>30	20.4	24.2	



ormal Ab 110

120-

cSt (40°C) 06 01 00 Base

> 80 70

120

110

cSt (40°C) 06 B

> 80 70

OIL ANALYSIS REPORT

	FLUID DEGF	RADATION method	limit/base cur	rent history1	history2
mal	Oxidation	Abs/.1mm ASTM D7414*	>25 21.7	18.1	
	VISUAL	method	limit/base cur	rent history1	history2
	Emulsified Water	scalar Visual*	>0.2 NEG	NEG	
	Free Water	scalar Visual*	NEG	NEG	
ma	FLUID PRO	PERTIES method	limit/base cur	rent history1	history2
	Visc @ 40°C	cSt ASTM D7279(m)		83.9	
	Visc @ 100°C	cSt ASTM D7279(m)		13.7	
cosity @ 40°C	Viscosity Index (VI) Scale ASTM D2270*		167	
rmal	GRAPHS				
	Iron (ppm)		Lead (ppm)	
	250 Severe		100 Severe		
	200 - 0		- 00 - 0		
ma	Abnormal		Abnormal		
	100 + 0		40 - 40		
	50		20		
	un 26/20		Jan 23/24		
	Jun2		Jan2 Jun2		
	Aluminum (pp	m)	Chrom	ium (ppm)	
	40 Severe		40 - Severe		
	_ 30 -				
	Abnormal		20 Abnormal		
	10		10-		
	0		0		
	, un26/20		Jan23/24 -		
	7				
	Copper (ppm)		Silicon ⁸⁰ T Severe	(ppm)	
	Abnomar 300 -		60-		
	툴 200 -		40 - Abnormal		
	100 -		20-		
	0				
	Jun 26/20		Jan 23/24		
	⊰ Viscosity @ 10	0.00	ా ె Soot %	6	
	¹⁸ T		6.0 T		
	17 Abnormal		5.0 - Severe		
	() 15 0015 14 tg 14		4.0 3.0 - Abnormal		
			2.0		
	13 12 12		1.0		
	11		0.0		
	Jun 26/20		Jan23/24		
	, ,				
Laborato		-1175 Appleby Line, Bu Recieved : 01	rlington, ON L7L 5H9 Feb 2024		 286 - Shoring & Foundati Ram Forest R
			Feb 2024	101	Stouffville, C
ISO 17025:2017 Lab Num					
ISO 17025:2017 Lab Num Accredited Unique Nu		Diagnostician : We		Operation	CA L4A 20 Shannon Abbo

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Contact/Location: Shannon Abbott - GFL286

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