

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

FREIGHTLINER 162

Component Diesel Engine

Fluid PETRO CANADA DURON SHP 10W30 (11 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.

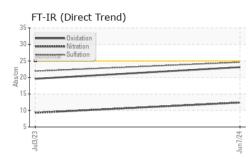
Fluid Condition

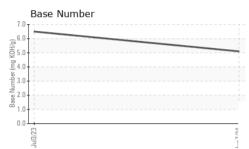
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

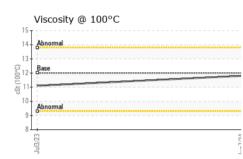
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2							
Sample Number		Client Info		PCA0115355	PCA0100613								
Sample Date		Client Info		07 Jun 2024	03 Jul 2023								
Machine Age	mls	Client Info		220049	120614								
Oil Age	mls	Client Info		50000	26111								
Oil Changed		Client Info		Changed	Changed								
Sample Status				NORMAL	NORMAL								
CONTAMINAT	ION	method	limit/base	current	history1	history2							
Fuel		WC Method	>5	<1.0	<1.0								
Water		WC Method	>0.2	NEG	NEG								
Glycol		WC Method		NEG	NEG								
WEAR METAL	S	method	limit/base	current	history1	history2							
Iron	ppm	ASTM D5185m	>80	63	32								
Chromium	ppm	ASTM D5185m	>5	2	2								
Nickel	ppm	ASTM D5185m	>2	1	<1								
Titanium	ppm	ASTM D5185m		0	0								
Silver	ppm	ASTM D5185m	>3	0	0								
Aluminum	ppm	ASTM D5185m	>30	18	11								
Lead	ppm	ASTM D5185m	>30	<1	0								
Copper	ppm	ASTM D5185m	>150	9	38								
Tin	ppm	ASTM D5185m	>5	<1	<1								
Vanadium	ppm	ASTM D5185m		0	0								
Cadmium	ppm	ASTM D5185m		<1	0								
Cadmium ADDITIVES	ppm	ASTM D5185m method	limit/base	<1 current	0 history1	history2							
	ppm ppm		limit/base		-								
ADDITIVES		method		current	history1	history2							
ADDITIVES Boron	ppm	method ASTM D5185m	2	current 1	history1 4	history2							
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	2 0	current 1 1	history1 4 0	history2 							
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50	current 1 1 65	history1 4 0 79	history2 							
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0	current 1 1 65 1	history1 4 0 79 <1	history2 							
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950	current 1 1 65 1 868	history1 4 0 79 <1 1036 1348 1212	history2 							
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180	current 1 1 65 1 868 1215	history1 4 0 79 <1 1036 1348 1212 1449	history2 							
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995	Current 1 1 65 1 868 1215 975	history1 4 0 79 <1 1036 1348 1212	history2							
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180	Current 1 1 65 1 868 1215 975 1088	history1 4 0 79 <1 1036 1348 1212 1449	history2							
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180 2600	Current 1 1 65 1 868 1215 975 1088 2505	history1 4 0 79 <1 1036 1348 1212 1449 3120	history2							
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180 2600	current 1 1 65 1 868 1215 975 1088 2505 current	history1 4 0 79 <1 1036 1348 1212 1449 3120 history1	history2							
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ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm TS	method ASTM D5185m	2 0 50 950 1050 995 1180 2600 Limit/base >20	current 1 65 1 868 1215 975 1088 2505 current 7 4 38 current	history1 4 0 79 <1 1036 1348 1212 1449 3120 history1 4 0 21 history1	history2							
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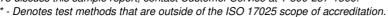






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPE		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.8	11.1	
GRAPHS						
Ferrous Alloys						
iron						
50 - nickel		No. of Concession, Name of				
	Concession of the local division of the loca					
트 40 30						
30-						
20 -						
10						
0						
Jul3/23			Jun7/24			
lut			Jun			
Non-ferrous Meta	ls					
40 T						
35 - management lead						
30- tin						
25						
틆 20 -						
15						
10						
5 -						
0 2			24			
Jul3/23			Jun7/24			
Viscosity @ 100°C	2			Base Number		
15 14 Abnormal			7.	.0 T		
13-			6. (D)			
			HOX	.0 +		
C 12 Base			(B),15. 	.0		
tg 11-			mn 3.	.0		
10 - Abaamal			N ase 2.	.0+		
Abnormal 9 -						
8			0.			
Jul3/23			Jun7/24	Jul3/23		
Juľ			Jun	Jul		
 WearCheck USA - 50 PCA0115355 				_		A Truck Rep
: PCA0115355 r : 06239997	Recei		Jul 2024	9	349 China Grov	
: <mark>06239997</mark> : 11128831	Teste		Jul 2024 Jul 2024 - W	Ves Davis		Pineville, US 281
	Diagr	103CU . 10	JUI 2024 - VI	VES DAVIS	Contact	Vlad Melnicl
: FLEET	vice at 1-F	300-237-1360	2			Vlad Mel





Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: ATRPIN [WUSCAR] 06239997 (Generated: 07/18/2024 16:36:45) Rev: 1

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