

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id HINO 471147

Component Diesel Engine

Fluid PETRO CANADA DURON SHP 10W30 (18 QTS)

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

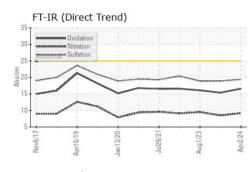
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

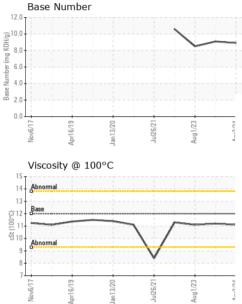
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0120703	PCA0113388	PCA0103003
Sample Date		Client Info		02 Apr 2024	30 Nov 2023	01 Aug 2023
Machine Age	mls	Client Info		0	173112	166891
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	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 METAL	c	method	limit/base	-	history1	history2
				current		
Iron	ppm	ASTM D5185m	>100	10	8	12
Chromium	ppm		>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	0	0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m		2	3	3
Lead	ppm	ASTM D5185m	>40	<1	<1	2
Copper	ppm	ASTM D5185m		1	1	4
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<1	16	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	68	62	63
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	950	1061	863	944
Calcium	ppm	ASTM D5185m	1050	1260	1208	1160
Phosphorus	ppm	ASTM D5185m	995	1177	1052	1030
Zinc	ppm	ASTM D5185m	1180	1381	1282	1296
Sulfur	ppm	ASTM D5185m	2600	3969	3240	3672
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	3	3
Sodium	ppm	ASTM D5185m		3	2	4
Potassium	ppm	ASTM D5185m	>20	<1	2	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.6	0.8
Nitration	Abs/cm	*ASTM D7624	>20	9.2	8.5	9.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	18.9	18.9
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	15.4	16.1
Base Number (BN)	mg KOH/g	ASTM D2896		8.9	9.1	8.5
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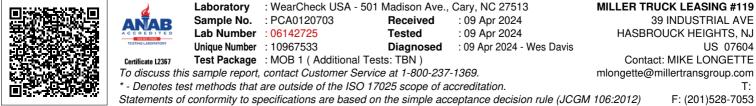
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VIOLAL





VISUAL		method	limit/base	current	histor	y1	histor	y2
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	NORMI	_	NORM	L
Odor	scalar	*Visual	NORML	NORML	NORMI	_	NORM	L
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG		NEG	
Free Water	scalar	*Visual		NEG	NEG		NEG	
FLUID PROPER	RTIES	method	limit/base	current	histor	y1	histor	y2
Visc @ 100°C	cSt	ASTM D445	12.00	11.1	11.2		11.1	
GRAPHS								
Iron (ppm)			100	Lead (ppm)				
0 Severe			100	Severe				
0-								
0 - Abnormal			ed 40	Abnormal				
0-			20	-				
						21		
Nov6/17 Apr16/19	Jul26/21	Aug 1/23 -	Apr2/24 -	Nov6/17 Apr16/19	Jan 13/20	Jul26/21	Aug1/23 -	100
ے بے ج	- -	A		∠ ₹ Chromium (p	,	-	4	
			50		pin)			
0 - Severe			40	Severe				
0-			³⁰					
0 - Abnormal			^a 20	- Abnormal				
			10					
	21	23	24 I		20.	21	23	
Nov6/17 Apr16/19 Jan13/20	Jul26/21	Aug1/23	Apr2/24	Nov6/17 Apr16/19	Jan 13/20	Jul26/21	Aug1/23	100
Copper (ppm)	,	4		 Silicon (ppm)	-T	,	4	
			80					
			60				1	
D - BENERMA			<u>ڦ</u> 40					
				Abnormal				
			20					
	21	23	24		20	21	23	č
Nov6/17 Apr16/19	Jul26/21	Aug 1/23	Apr2/24	Nov6/17 Apr16/19	Jan 13/20	Jul26/21	Aug1/23 -	
Viscosity @ 100°C	,			 Base Number	-	-	-	
				-				
4 - Abnormal			(b) H010 4.0 4.0 8.0 4.0 8.0 4.0 2.0				~	
2 Base	~		E 8.0					
O- Abnormal								
8-	V		2.0					
6	Jul26/21-	Aug1/23	Apr2/24 -	Nov6/17	Jan 13/20 +	Jul26/21	Aug1/23 -	100
Nov6/17 Apr16/19 -			~	~ ~	2	10	1	5



Contact/Location: MIKE LONGETTE - MILRUT

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