

OIL ANALYSIS REPORT

Sample Rating Trend

SAMPLE INFORMATION method limit/base



Machine Id 914032

Component Diesel Engine

Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

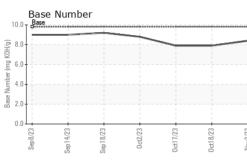
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

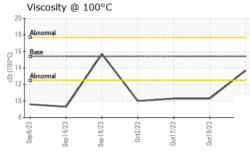
		methou	iiiiii/base	Current	nistory i	THStOryZ		
Sample Number		Client Info		GFL0098840	GFL0098821	GFL0098823		
Sample Date		Client Info		03 Nov 2023	18 Oct 2023	17 Oct 2023		
Machine Age	hrs	Client Info			562	553		
Oil Age	hrs	Client Info				144		
Oil Changed		Client Info		Changed	Changed	Changed		
Sample Status				NORMAL	ABNORMAL	ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2		
Fuel		WC Method	>5	<1.0	<1.0	<1.0		
Glycol		WC Method	NEG		NEG	NEG		
WEAR METAL	S	method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>100	7	37	36		
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1		
Nickel	ppm	ASTM D5185m	>4	<1	3	3		
Titanium	ppm	ASTM D5185m		0	0	0		
Silver	ppm	ASTM D5185m	>3	1	<1	<1		
Aluminum	ppm	ASTM D5185m	>20	2	4	4		
Lead	ppm	ASTM D5185m	>40	0	4	4		
Copper	ppm	ASTM D5185m	>330	64	282	284		
Tin	ppm	ASTM D5185m	>15	<1	3	3		
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	15	208	210		
Barium	ppm	ASTM D5185m	0	0	0	0		
Molybdenum	ppm	ASTM D5185m	60	61	115	114		
Manganese	ppm	ASTM D5185m	0	<1	4	4		
Magnesium	ppm	ASTM D5185m	1010	934	748	738		
Calcium	ppm	ASTM D5185m	1070	1018	1403	1398		
Phosphorus	ppm	ASTM D5185m	1150	1064	723	716		
Zinc	ppm	ASTM D5185m	1270	1240	882	867		
Sulfur	ppm	ASTM D5185m	2060	3049	2319	2291		
CONTAMINAN	TS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	12	A 83	A 82		
Sodium	ppm	ASTM D5185m		1	2	2		
Potassium	ppm	ASTM D5185m	>20	1	5	5		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>3	0.2	0.4	0.4		
Nitration	Abs/cm	*ASTM D7624	>20	5.7	8.7	8.6		
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	23.4	23.5		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.6	20.8	20.9		
Base Number (BN)	mg KOH/g		9.8	8.4	7.9	7.9		
	99	0		-				



OIL ANALYSIS REPORT

VISUAL





Laboratory Sample No. Lab Number Unique Number Certificate 12367 To discuss this sample report, of	: WearCheck USA - 5 : GFL0098840 : 05999690 : 10728050 : FLEET	Nov 2023 Nov 2023 s Davis	ov 2023 ov 2023			ental - 814 - Little Rock Haulin 4005 Hwy 161 N Little Rock, Al US 7211 Contact: Brad Manage T					
		Sep 8/23	0ct2/23	0ct17/23 + 0ct18/23 +	.0. Nov3/23	Sep 8/23 Sep 1 4/23	Sep18/23	0ct2/23 +	0ct17/23	0ct18/23 +	C C C C C C C C C C C C C C C C C C C
		12		/	Base 2.						
		314- Abnormal			(b) 6. 8ase Number (mg KOH(g)						
		16 - Page			.8. (B/H0)	D -					_
		20 18 Abnormal			10.						
		Viscosity @ 100°C		0	_	Base Numb	er				
		Sep8/23	0ct2/23 -	0ct17/23 - 0ct18/23 -	Nov3/23						
		100			\mathbf{A}						
	E	150 -	/								
		250 lead	1	\setminus							
		Non-ferrous Metal	5								
		Sep 8/23 Sep 14/23 Sep 18/23	0ct2/23	0ct17/23 0ct18/23	Nov3/23						
		5 0 EZ EZ EZ	23	23	23						
		15			/						
		25 Eg 20									
0ct2/23	0ct18/23	30 - nickel									
23	53 23	40 35									
		GRAPHS Ferrous Alloys									
		Visc @ 100°C	cSt	ASTM D445		13.7	1		1		
		FLUID PROPE		method	limit/base	current		history1		histor	y2
		Free Water	scalar scalar	*Visual *Visual	>0.2	NEG NEG		IEG IEG		IEG IEG	
Č Č		Odor Emulsified Water	scalar	*Visual	NORML	NORML				JORML	_
0ct2/23	0ct18/23 Nov3/23	Appearance	scalar	*Visual	NORML	NORML		IORML		IORML	
		Sand/Dirt	scalar	*Visual	NONE	NONE	Ν	IONE	Ν	IONE	
		Debris	scalar	*Visual	NONE	NONE		IONE		IONE	
		Precipitate Silt	scalar scalar	*Visual *Visual	NONE NONE	NONE NONE		IONE		IONE	
		Provinitato	coolor	*\/icual	NONE	NONE	N	IONE	N		
		Yellow Metal	scalar	*Visual	NONE	NONE		IONE		IONE	

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