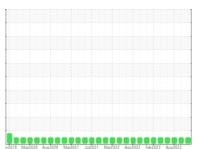


OIL ANALYSIS REPORT

Sample Rating Trend







VOLVO L150 L150H

Component

Diesel Engine

Fluid

PETRO CANADA DURON HP 15W40 (50 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

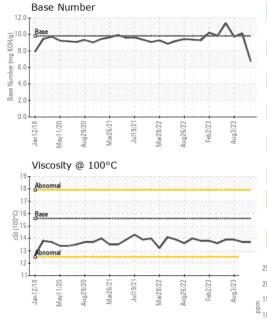
Fluid Condition

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

ЛИ ПР 15W4U (Э	U (LIS)	n2018 May20	20 Aug2020 Mar2021 Jul	2021 Mar2022 Aug2022 Feb2023	Aug2023			
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		PCA0090837	PCA0071899	PCA0090555		
Sample Date		Client Info		20 Sep 2023	11 Aug 2023	03 Aug 2023		
Machine Age hrs		Client Info		10401	10212	9941		
Oil Age hrs		Client Info		189	271	216		
Oil Changed		Client Info		Changed	Changed	Changed		
Sample Status				NORMAL	NORMAL	NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2		
Fuel		WC Method	>6.0	<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	<1	3	0		
Chromium	ppm	ASTM D5185m	>20	0	<1	0		
Nickel	ppm	ASTM D5185m	>2	0	0	<1		
Titanium	ppm	ASTM D5185m		0	0	<1		
Silver	ppm	ASTM D5185m	>2	0	0	<1		
Aluminum	ppm	ASTM D5185m	>25	<1	1	<1		
Lead	ppm	ASTM D5185m	>40	0	0	<1		
Copper	ppm	ASTM D5185m	>330	0	<1	<1		
Tin	ppm	ASTM D5185m	>15	<1	0	0		
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		13	7	3		
Barium	ppm	ASTM D5185m		0	0	0		
Molybdenum	ppm	ASTM D5185m		57	62	64		
Manganese	ppm	ASTM D5185m		0	<1	0		
Magnesium	ppm	ASTM D5185m		889	982	964		
Calcium	ppm	ASTM D5185m		1048	1090	1146		
Phosphorus	ppm	ASTM D5185m		996	1048	1090		
Zinc	ppm	ASTM D5185m		1196	1255	1278		
Sulfur	ppm	ASTM D5185m		3078	3850	3332		
CONTAMINAN	TS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	2	3	2		
Sodium	ppm	ASTM D5185m		<1	<1	1		
Potassium	ppm	ASTM D5185m	>20	1	0	<1		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1		
Nitration	Abs/cm	*ASTM D7624	>20	5.1	5.1	5.2		
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.0	16.8	17.3		
FLUID DEGRADATION method limit/base current history1								
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.1	12.7	13.5		
Base Number (BN)	mg KOH/g		9.8	6.74	10.10	9.72		
(214)								



OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE	
Yellow Metal sca		*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	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG	
Free Water scalar		*Visual	NEG		NEG	NEG	
ELLUD DDODE	DTIEO		11 12 12		111	1111	

FLUID FROF	ENTIES	method			HISTOLAL	HISTOLYZ
Visc @ 100°C	cSt	ASTM D445	15.6	13.7	13.7	13.9

	• .00	e	,, ,		00		/ (0 1 1	VI D I IV				•••			10.7			10.0	
	GF	RAP	HS																
250	Iron (ppm)						100				Lead (ppm)								
200	Seve	re	111							80	Seve	ere	111		Ш			Titi	
를 ¹⁵⁰										Edd 40									
E 100	Abn	ormal				-		+++		^음 40	Abn	ormal				+++	+++	+++	
50										20					Ш				
0	Jan12/18	May11/20	Aug29/20	Mar26/21-	Jul19/21	Mar28/22	Aug26/22	Feb2/23	Aug3/23	0	Jan12/18	May11/20	Aug29/20	Mar26/21	Jul19/21	Mar28/22	Aug26/22	Feb2/23	Aug3/23
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50	Alu	minu	ım (p	pm)						50	Chi	romi	ım (I	opm)					-1
40	1 1	re					-			40	Seve	ere							
Ed 30	Abn	ormal								E 30	Abn	ormal							
10										² 20	0			Ш	Ш		Ш		
0			4	_	4	2	2		3	0					-		2	3	
	Jan12/18	May11/20	Aug29/20	Mar26/21	Jul19/21	Mar28/22	Aug26/22	Feb2/23	Aug3/23		Jan12/18	May11/20	Aug29/20	Mar26/21	Jul19/21	Mar28/22	Aug26/22	Feb2/23	Aug3/23
			∢ (ppn			2	A						ppm			2	A		
400	Seve		7-7-7	1777	777				1-1-1-1-1	80	Seve	ere	7-7-7	7	1				
300	1.1									60	+		111						
틆 200	1									摄 40	Abn	ormal							
100	1									20			1-1-1-						
0	181	/20	/20	12/9	12/6	/22	/22	/23	/23	0	18	02/	120	12/9	12/8	/22	122	123	1/23
	Jan12/18	May11/20	Aug29/20	Mar26/21	Jul19/21	Mar28/22	Aug26/22	Feb2/23	Aug3/23		Jan12/18	May11/20	Aug29/20	Mar26/21	Jul19/21.	Mar28/22	Aug26/22	Feb2/23	Aug3/23
20		cosity	y @ 1	100°(2					12.0	Bas	se Nu	ımbe	r					
20 18	Abo	ormal			Ш			Ш		12.0 形10.0	Bas	•						بمر	1
CSt (100°C)	Base				444	-	444	444	<u> </u>	Base Number (mg KOH/g) 0.9 0.7 0.7 0.9									1
		ormal		\sim	$\overline{}$	~	~		-	9 4.0									
12										2.0 0.0									
10	Jan12/18	May11/20	Aug29/20	Mar26/21	Jul19/21	Mar28/22	Aug26/22	Feb2/23	Aug3/23	0.0	Jan12/18	May11/20	Aug29/20	Mar26/21	Jul19/21	Mar28/22	Aug26/22	Feb2/23	Aug3/23
	Jan	Мау	Aug	Mai	7	Mar	Aug	골	Ani		Jan	Мау	Aug	Mai	'n	Mar	Aug	æ	Ani





Certificate L2367

Laboratory Sample No. Lab Number

: 05994522 Unique Number : 10722882 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 31 Oct 2023 : PCA0090837 Received Diagnosed : 01 Nov 2023

Diagnostician : Wes Davis

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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