

OIL ANALYSIS REPORT

FLEET Machine Id VOLVO 2126963 (S/N 4V4NC9EH1NN603196) Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (42 QTS)

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.

EH1NN603	196)					
QTS)						
SAMPLE INFORI	MATION		limit/base	sepźdza Novżo current	²³ history1	history2
Sample Number		Client Info		PCA0108210	PCA0102838	PCA0095981
Sample Date		Client Info		16 Nov 2023	05 Sep 2023	01 Jun 2023
Machine Age	mls	Client Info		68021	47778	25369
Oil Age	mls	Client Info		20243	22409	25369
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	14	22	52
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>2	<1	<1	2
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	1	<1
Aluminum	ppm	ASTM D5185m	>25	4	10	28
ead	ppm	ASTM D5185m	>40	<1	0	2
Copper	ppm	ASTM D5185m	>330	118	355	264
Гin	ppm	ASTM D5185m	>15	1	2	6
/anadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	0	7	167
Barium	ppm	ASTM D5185m	0	0	0	0
Nolybdenum	ppm	ASTM D5185m	50	61	62	102
Manganese	ppm	ASTM D5185m	0	<1	2	6
Magnesium	ppm	ASTM D5185m	950	930	973	726
Calcium	ppm	ASTM D5185m	1050	1071	1119	1436
Phosphorus	ppm	ASTM D5185m	995	949	971	713
Zinc	ppm	ASTM D5185m	1180	1210	1217	885
Sulfur	ppm	ASTM D5185m	2600	3108	3154	2809
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	11	44
Sodium	ppm	ASTM D5185m		0	4	5
Potassium	ppm	ASTM D5185m	>20	13	27	76
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.9	9.0	10.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	20.6	24.3
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1	16.2	24.2
Base Number (BN)	mg KOH/g	ASTM D2896		7.4	7.5	6.0

Sample Rating Trend

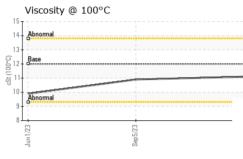
NORMAL



OIL ANALYSIS REPORT

VISUAL

Base Number 8.0 1.0 0.0 Sep5/23. Jun1/23



							1.01.1	
		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
23	23	Sand/Dirt Appearance	scalar scalar	*Visual *Visual	NONE NORML	NONE NORML	NONE	NONE
Sep5/23	Nov16/23	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	2	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
		Free Water	scalar	*Visual	20.2	NEG	NEG	NEG
					1			
		FLUID PROP Visc @ 100°C	cSt	method ASTM D445	limit/base	current	history1 10.9	history2 9.9
		GRAPHS	COL	ASTIM D445	12.00	11.1	10.9	9.9
		Ferrous Alloys						
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		Non-ferrous Met						
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		400 350 300 						
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trificate L2367		400 350 300 250 250 250 0 0 50 0 0 50 0 0 0 0 0 0 0 0 0 0 0 0 0	Sep5/23	d : 20 1 ed : 21 1	8. 7. (6) 6. 5. 1. 9. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PERDUE FARM 22520 LA	IS - ACCOMA INKFORD HW ACCOMAC, V US 2331 PEGGY KIME

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

Submitted By: RANDY PARKER

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