

Machine Id
VOLVO 26624

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 10W30 (--- QTS)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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 INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PCA0104325	PCA0051425	PCA0051407
Sample Date	Client Info			02 Jan 2024	19 May 2022	06 May 2021
Machine Age	mls	Client Info		437190	386747	39424
Oil Age	mls	Client Info		0	0	39424
Oil Changed	Client Info			N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

CONTAMINATION		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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	28	33	40
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>25	47	4	3
Lead	ppm	ASTM D5185m	>40	3	7	6
Copper	ppm	ASTM D5185m	>330	34	8	10
Tin	ppm	ASTM D5185m	>15	<1	2	2
Antimony	ppm	ASTM D5185m		---	---	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

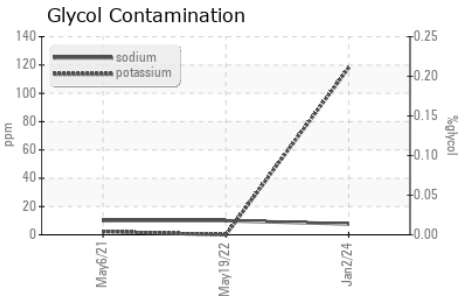
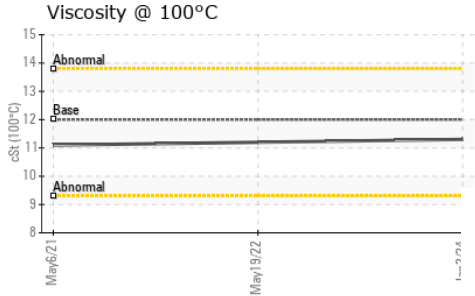
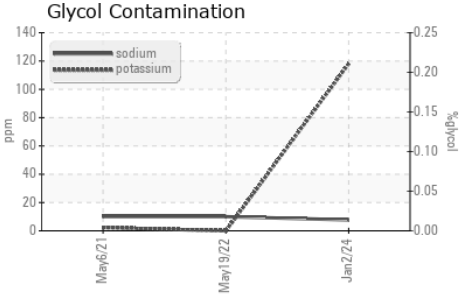
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	17	2	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	62	61	59
Manganese	ppm	ASTM D5185m	0	1	<1	<1
Magnesium	ppm	ASTM D5185m	950	504	934	867
Calcium	ppm	ASTM D5185m	1050	1621	1171	1036
Phosphorus	ppm	ASTM D5185m	995	991	915	848
Zinc	ppm	ASTM D5185m	1180	1252	1218	1140
Sulfur	ppm	ASTM D5185m	2600	2759	3100	2049

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	13	5	3
Sodium	ppm	ASTM D5185m		8	10	10
Potassium	ppm	ASTM D5185m	>20	118	0	2
Glycol	%	*ASTM D2982		NEG	NEG	NEG

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.8	0.7
Nitration	Abs/cm	*ASTM D7624	>20	9.4	12.6	10.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	25.5	22.3

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.4	21.5	18.2
Base Number (BN)	mg KOH/g	ASTM D2896		6.4	6.1	6.2

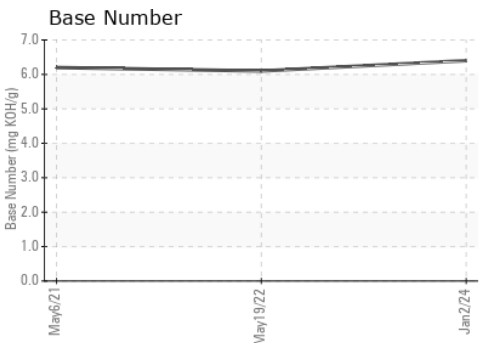
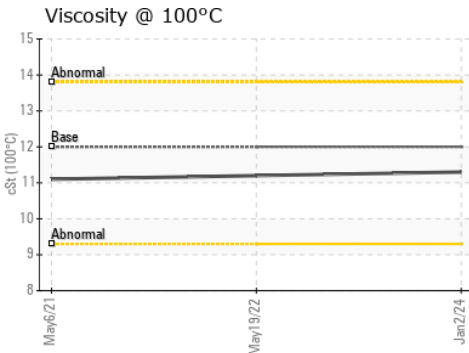
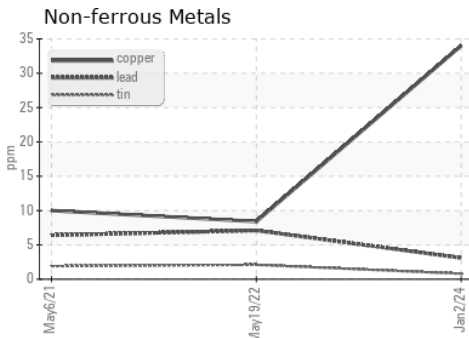
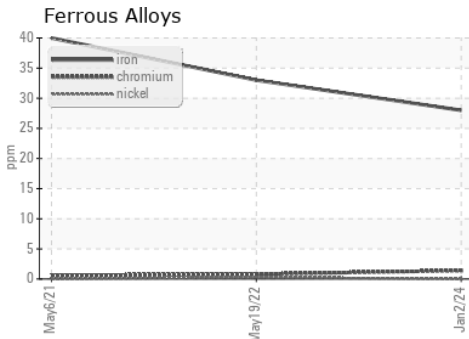
OIL ANALYSIS REPORT



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 PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.3	11.2

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0104325 **Received** : 06 Feb 2024
Lab Number : **06081105** **Tested** : 07 Feb 2024
Unique Number : 10863196 **Diagnosed** : 07 Feb 2024 - Sean Felton
Test Package : FLEET (Additional Tests: GLYCOL)

PERDUE FARMS - COFIELD
 242 PERDUE RD
 COFIELD, NC
 US 27922
 Contact: JOHNNY LASSITER
 johnny.lassiter@perdue.com

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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