

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Limit/Abn **Current**

History1

History2

FLEET Machine Id VOLVO 2227087 (S/N 4V4NC9EH8RN643765)

Test

Visc @ 100°C cSt

UOM

Method

Diesel Engine

DIESEL ENGINE OIL SAE 30 (42 QTS)

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 30. Please confirm.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

Elevated aluminum (AI) 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.

	lest	UOM	Ivietnoa	Limit/Adn	Current	HISTORY I	History2
	Sample Number		Client Info		PCA0124530	PCA0118722	PCA0108204
	Sample Date		Client Info		16 May 2024	26 Feb 2024	13 Dec 2023
	Machine Age	mls	Client Info		59985	39500	21064
	Oil Age	mls	Client Info		41549	18436	21064
	Filter Age	mls	Client Info		20485	18436	21064
	Oil Changed		Client Info		Changed	Not Changd	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	ABNORMAL	ABNORMAL
	Iron	ppm	ASTM D5185m	>100	29	15	27
	Chromium	ppm	ASTM D5185m	>20	2	<1	<1
	Nickel	ppm	ASTM D5185m	>2	5	2	2
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>2	2	4	19
	Aluminum	ppm	ASTM D5185m	>25	11	9	30
	Lead	ppm	ASTM D5185m	>40	1	4	0
	Copper	ppm	ASTM D5185m	>330	230	A 357	112
	Tin	ppm	ASTM D5185m	>15	3	<1	4
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	0'''			05	45	4.0	
	Silicon	ppm	ASTM D5185m	>25	15 34	13	▲ 57
	Potassium	ppm	ASTM D5185m	>20	-	21	83
	Fuel	%	ASTM D3524 WC Method	>6.0	<1.0	<1.0	0.0
	Water			>0.2	NEG	NEG	NEG
	Glycol	0/	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	10.5	8.1	9.0 24.3
	Sulfation Silt	Abs/.1mm	*ASTM D7415 *Visual	>30 NONE	21.5	19.9	
		scalar	*Visual	NONE	NONE NONE	NONE	NONE
	Debris Sand/Dirt	scalar	*Visual		NONE	NONE	NONE
	Sand/Dirt	scalar scalar	*Visual	NONE NORML	NORML	NORML	NORML
	Appearance Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
		Scalai	visuai	>0.2	NEG	NLG	NLG
	Sodium	ppm	ASTM D5185m	>75	3	3	4
	Boron	ppm	ASTM D5185m	250	8	16	213
	Barium	ppm	ASTM D5185m	10	0	0	<1
	Molybdenum	ppm	ASTM D5185m	100	69	68	115
	Manganese	ppm	ASTM D5185m		2	<1	3
	Magnesium	ppm	ASTM D5185m	450	961	1044	703
	Calcium	ppm	ASTM D5185m	3000	1199	1215	1329
	Phosphorus	ppm	ASTM D5185m	1150	965	1040	716
	Zinc	ppm	ASTM D5185m	1350	1223	1279	835
	Sulfur	ppm	ASTM D5185m	4250	2558	2937	2305
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.7	16.1	21.9
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.5	7.5	7.9
		cSt	ASTM D445	10.0	10.4	10.5	9.5

ASTM D445 10.9

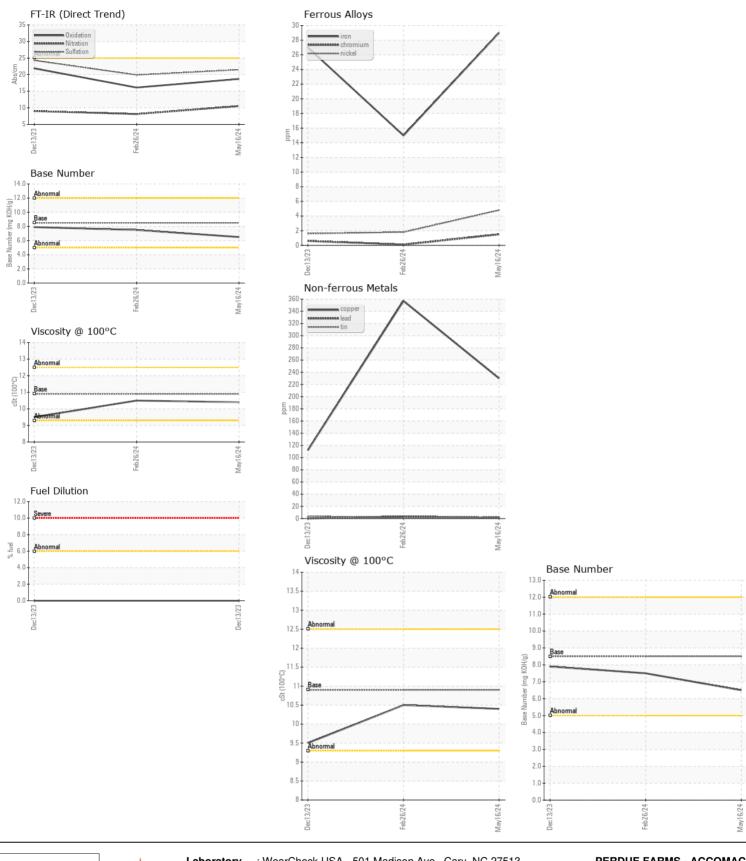
FLUID CONDITION

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

10.5

9.5

10.4



PERDUE FARMS - ACCOMAC Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : PCA0124530 Received 22520 LANKFORD HWY : 23 May 2024 : 24 May 2024 Lab Number : 06188776 Tested ACCOMAC, VA Unique Number : 11045528 Diagnosed : 24 May 2024 - Wes Davis US 23301 Test Package : FLEET (Additional Tests: FuelDilution) Contact: PEGGY KIMES Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. peggy.kimes@perdue.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (757)787-5304 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (757)787-5208

Submitted By: RANDY PARKER Page 2 of 2