

## Machine Id **Truck 267** Component **Diesel Engine** Filuid **PHILLIPS 66 Fleet Supreme EC 15W40 (10 GAL)**

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Number		Client Info		LW0009423	LW0009170	LW0009164
	Sample Date		Client Info		27 Jun 2024	16 May 2024	01 Apr 2024
	Machine Age	mls	Client Info		808460	791073	774240
	Oil Age	mls	Client Info		17387	16833	25000
	Filter Age	mls	Client Info		17387	16833	25000
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	16	24	36
	Chromium	ppm	ASTM D5185m	>20	<1	1	<1
	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	1	0
	Aluminum	ppm	ASTM D5185m		3	5	7
	Lead	ppm	ASTM D5185m		6	6	6
	Copper	ppm	ASTM D5185m		4	7	8
	Tin	ppm	ASTM D5185m		0	1	0
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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CONTAMINATION	Silicon	ppm	ASTM D5185m		5	7	5
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		4	8	12
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	01	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.4	0.3	0.6
	Nitration	Abs/cm	*ASTM D7624		10.1	7.5	10.1
	Sulfation	Abs/.1mm	*ASTM D7415		25.6	18.3	25.5
	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	2	3
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		15	23	21
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		9	11	10
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		827	850	802
	Calcium	ppm	ASTM D5185m		1345	1448	1449
	Phosphorus	ppm	ASTM D5185m	1116	1115	1172	1108
	Zinc	ppm	ASTM D5185m	1250	1318	1384	1305
	Sulfur	ppm	ASTM D5185m		4109	4184	4204
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.5	13.7	17.8
	Base Number (BN)	mg KOH/g	ASTM D2896	9.7	6.4	6.6	6.1
		<u></u>	AOTH DAAF	4 5 0		10.0	10.0

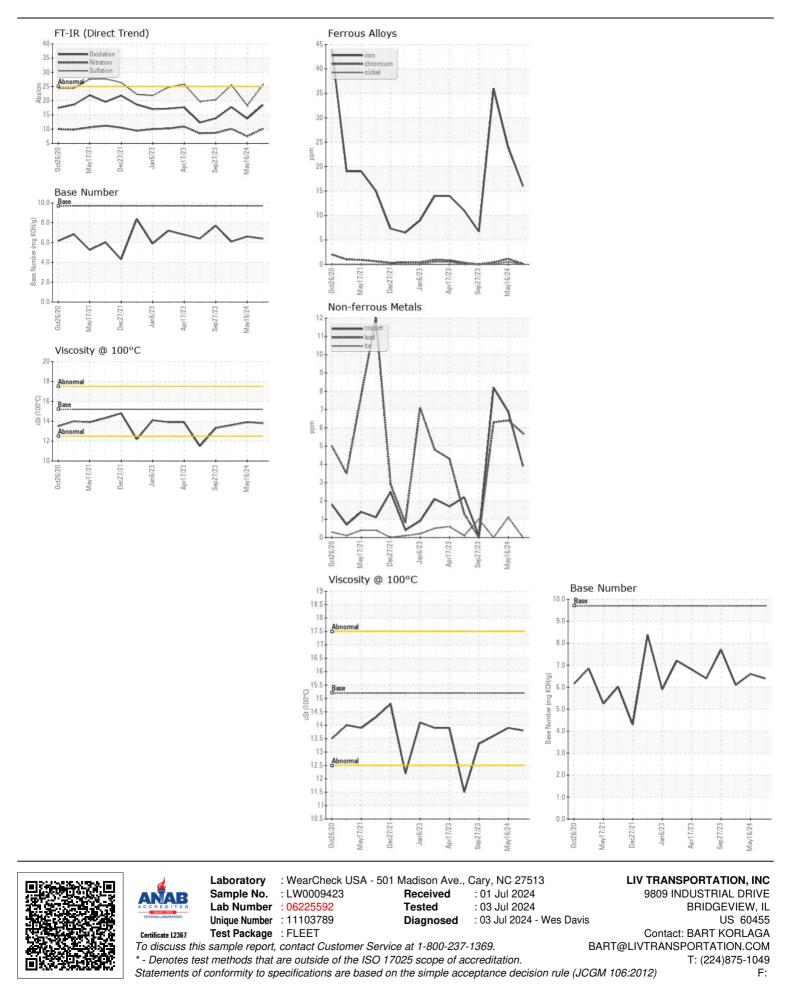
Visc @ 100°C cSt

ASTM D445 15.2

13.9

13.6

13.8



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Submitted By: GREG SMIALKOWSKI Page 2 of 2