



KANSAS/44 53.162L [KANSAS^44] Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (3 GAL)

RECOMMENDATION Test We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status Sample Status WEAR Iron All component wear rates are normal. Nickel

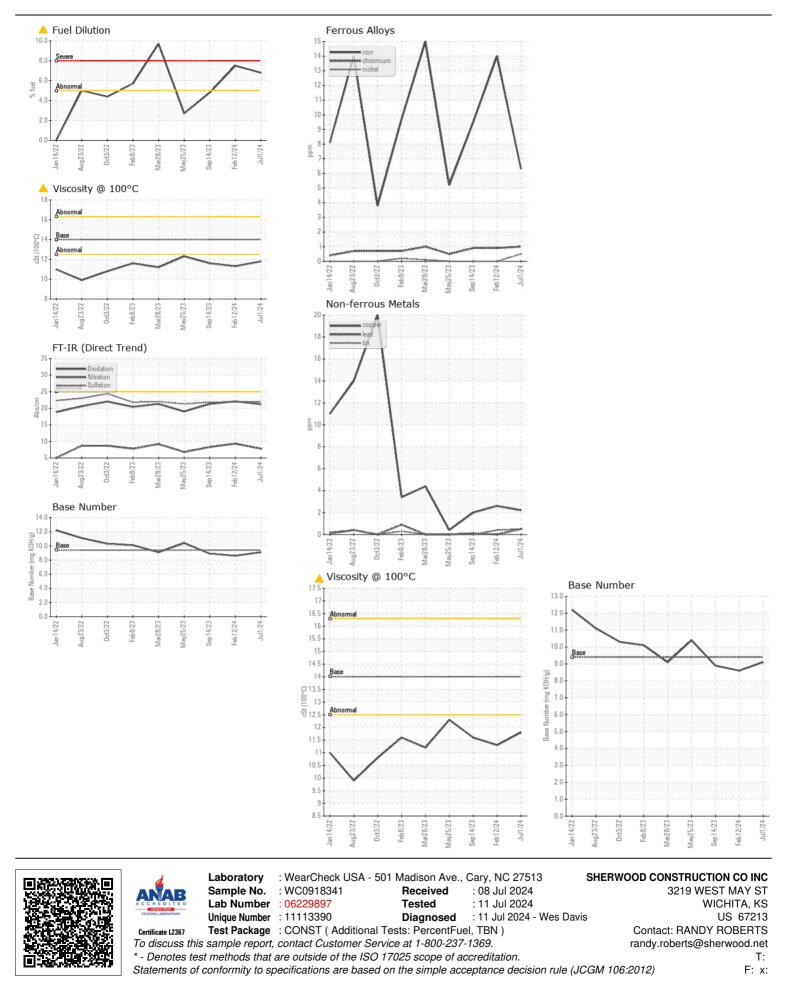
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There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

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The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0918341	WC0821571	WC0665269
Sample Date		Client Info		01 Jul 2024	12 Feb 2024	14 Sep 2023
Machine Age	hrs	Client Info		1682	1398	1304
Oil Age	hrs	Client Info		4	0	1220
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		N/A	Changed	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron		ASTM D5185m	>100	6	14	10
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm		>20	י <1	0	0
	ppm	ASTM D5185m		<1 1		0
Titanium	ppm	ASTM D5185m	>2	-	<1	
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	3
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	2	3	2
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m	NONE	<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	6	4	7
Potassium	ppm	ASTM D5185m	>20	3	0	<1
Fuel	%	ASTM D3524	>5	6.8	▲ 7.5	▲ 4.8
Water	,	WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method	20.2	NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.8	9.3	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	21.9	21.8
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
Sodium	ppm	ASTM D5185m		3	5	4
Boron	ppm	ASTM D5185m	0	52	36	40
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	39	39	44
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	505	499	524
Calcium	ppm	ASTM D5185m		1712	1678	1784
Phosphorus	ppm	ASTM D5185m		749	751	800
Zinc	ppm	ASTM D5185m		950	891	1006
Sulfur	ppm	ASTM D5185m		2466	2265	2914
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.2	22.1	21.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	9.1	8.6	8.9
Visc @ 100°C	cSt	ASTM D445	14	<u> </u>	▲ 11.3	1 1.6



Submitted By: JAMES MOORE Page 2 of 2