

OIL ANALYSIS REPORT

Sample Rating Trend





Area KANSAS/44 Machine Id 20.525L [KANSAS^44] Component

Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (9 GAL)

		00112021				
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0781263	WC0779885	WC0673579
Sample Date		Client Info		18 Sep 2023	08 Mar 2023	08 Jul 2022
Machine Age	hrs	Client Info		1930	1471	1010
Oil Age	hrs	Client Info		388	0	700
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	8	7	11
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>25	5	2	2
Lead	ppm	ASTM D5185m	>40	<1	<1	1
Copper	ppm	ASTM D5185m	>330	4	4	7
Tin	ppm	ASTM D5185m	>15	<1	<1	1
Vanadium	ppm	ASTM D5185m	210	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	45	40	49
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	43	38	40
Manganese	ppm	ASTM D5185m		<1		
				<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	<1 493	<1 508	<1 537
Magnesium Calcium	ppm ppm		0			
-		ASTM D5185m	0	493	508	537
Calcium	ppm	ASTM D5185m ASTM D5185m	0	493 1620	508 1650	537 1717
Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0	493 1620 934	508 1650 731	537 1717 766
Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 limit/base	493 1620 934 1126	508 1650 731 887	537 1717 766 918 3114
Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	493 1620 934 1126 3204	508 1650 731 887 2516	537 1717 766 918 3114
Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base	493 1620 934 1126 3204 current	508 1650 731 887 2516 history1	537 1717 766 918 3114 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	limit/base >25	493 1620 934 1126 3204 current 5	508 1650 731 887 2516 history1 6	537 1717 766 918 3114 history2 7
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25	493 1620 934 1126 3204 current 5 <	508 1650 731 887 2516 history1 6 2	537 1717 766 918 3114 history: 7 4 0
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25 >20	493 1620 934 1126 3204 current 5 <1 2	508 1650 731 887 2516 history1 6 2 2 <1	537 1717 766 918 3114 history: 7 4 0
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25 >20 limit/base >3	493 1620 934 1126 3204 <u>current</u> 5 <1 2 <u>current</u> 0.4	508 1650 731 887 2516 history1 6 2 <1 2 <1 history1 0.4	537 1717 766 918 3114 history 7 4 0 history 0.5
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25 >20 limit/base >3 >20	493 1620 934 1126 3204 current 5 <1 2 current	508 1650 731 887 2516 history1 6 2 <1 kistory1	537 1717 766 918 3114 history2 7 4 0 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm pm bpm b	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7844	limit/base >25 >20 limit/base >3 >20	493 1620 934 1126 3204 current 5 <1 2 current 0.4 6.7	508 1650 731 887 2516 history1 6 2 <1 2 <1 history1 0.4 6.9	537 1717 766 918 3114 history2 7 4 0 history2 0.5 7.2 22.8
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm pm bpm b	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7844 *ASTM D7624	limit/base >25 >20 limit/base >3 >20 >30	493 1620 934 1126 3204 current 5 <1 2 current 0.4 6.7 22.5	508 1650 731 887 2516 history1 6 2 <1 6 2 <1 0.4 6.9 22.1	537 1717 766 918 3114 history2 7 4 0 history2 0.5 7.2

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

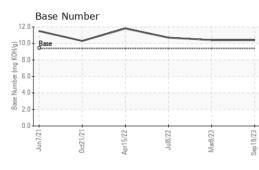
There is no indication of any contamination in the oil.

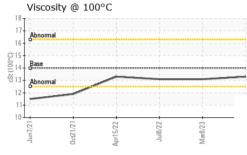
Fluid Condition

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



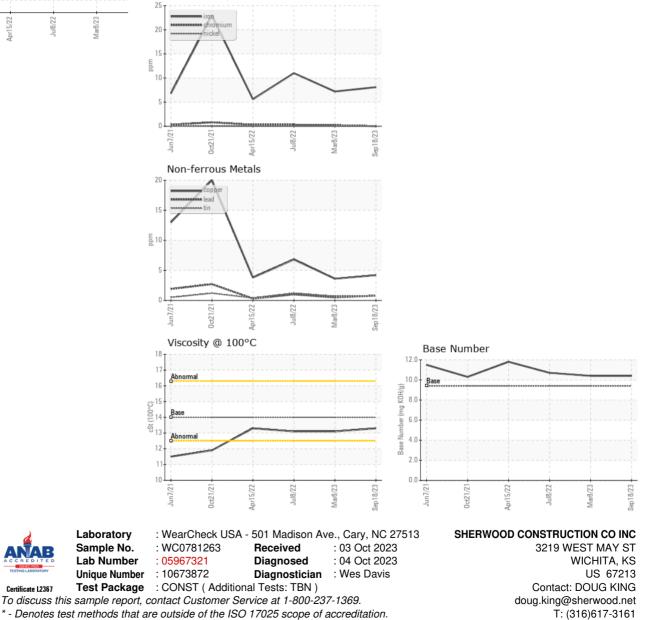
OIL ANALYSIS REPORT





VISUAL		method	limit/base	current	history1	history2
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
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
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14	13.3	13.1	13.1
СПАРЦО						





Certificate L2367

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