

OIL ANALYSIS REPORT

Sample Rating Trend







OKLAHOMA/105/EG - TRUCK-ON-HWY-HEAVY DUTY 08.111 [OKLAHOMA^105^EG - TRUCK-ON-HWY-HEAVY DUTY]

Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

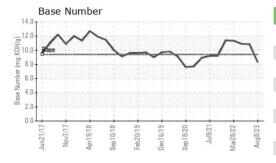
Fluid Condition

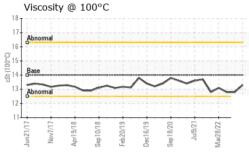
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0726226	WC0741116	WC0713178
Sample Date		Client Info		08 Aug 2023	13 Oct 2022	19 Jul 2022
Machine Age	hrs	Client Info		10471	9860	9406
Oil Age	hrs	Client Info		611	454	323
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	10	4	4
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	3	1	2
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	nnm	ASTM D5185m		0	0	0
Cadmidin	ppm	ASTIVI DSTOSIII		U	0	U
ADDITIVES	ррш	method	limit/base	current	history1	history2
	ррт		limit/base			
ADDITIVES		method ASTM D5185m		current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	0	current 27	history1 48	history2
ADDITIVES Boron Barium	ppm	method ASTM D5185m ASTM D5185m	0	current 27 2	history1 48 <1	history2 39
ADDITIVES Boron Barium Molybdenum	ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	0	current 27 2 49	history1 48 <1 40	history2 39 0 43
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0	current 27 2 49 <1	history1 48 <1 40 <1	history2 39 0 43 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0	current 27 2 49 <1 531	history1 48 <1 40 <1 497	history2 39 0 43 <1 511
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0	current 27 2 49 <1 531 1893	history1 48 <1 40 <1 497 1750	history2 39 0 43 <1 511 1794
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0	current 27 2 49 <1 531 1893 808	history1 48 <1 40 <1 497 1750 758	history2 39 0 43 <1 511 1794 762
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0	current 27 2 49 <1 531 1893 808 989	history1 48 <1 40 <1 497 1750 758 885	history2 39 0 43 <1 511 1794 762 921
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0 0	current 27 2 49 <1 531 1893 808 989 2841	history1 48 <1 40 <1 497 1750 758 885 2953	history2 39 0 43 <1 511 1794 762 921 3122
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0 0	current 27 2 49 <1 531 1893 808 989 2841 current	history1 48 <1 40 <1 497 1750 758 885 2953 history1	history2 39 0 43 <1 511 1794 762 921 3122 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0 0 Iimit/base	current 27 2 49 <1 531 1893 808 989 2841 current 5	history1 48 <1 40 <1 497 1750 758 885 2953 history1 7	history2 39 0 43 <1 511 1794 762 921 3122 history2 3
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0 0 Iimit/base	current 27 2 49 <1 531 1893 808 989 2841 current 5	history1 48 <1 40 <1 497 1750 758 885 2953 history1 7	history2 39 0 43 <1 511 1794 762 921 3122 history2 3 11
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0 0 limit/base >25 >20	current 27 2 49 <1 531 1893 808 989 2841 current 5 0 4	history1 48 <1 40 <1 497 1750 758 885 2953 history1 7 2 0	history2 39 0 43 <1 511 1794 762 921 3122 history2 3 11 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m method	0 0 0 0 	current 27 2 49 <1 531 1893 808 989 2841 current 5 0 4 current	history1 48 <1 40 <1 497 1750 758 885 2953 history1 7 2 0 history1	history2 39 0 43 <1 511 1794 762 921 3122 history2 3 11 0 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 0 	current 27 2 49 <1 531 1893 808 989 2841 current 5 0 4 current 0.4	history1 48 <1 40 <1 497 1750 758 885 2953 history1 7 2 0 history1 0.1	history2 39 0 43 <1 511 1794 762 921 3122 history2 3 11 0 history2 0.1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m method ASTM D5185m	0 0 0 0 0 limit/base >25 >20 limit/base >6 >20	current 27 2 49 <1 531 1893 808 989 2841 current 5 0 4 current 0.4 9.9	history1 48 <1 40 <1 497 1750 758 885 2953 history1 7 2 0 history1 0.1 7.0	history2 39 0 43 <1 511 1794 762 921 3122 history2 3 11 0 history2 0.1 7.2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m method *ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7415	0 0 0 0 0 limit/base >25 >20 limit/base >6 >20 >30	current 27 2 49 <1 531 1893 808 989 2841 current 5 0 4 current 0.4 9.9 22.7	history1 48 <1 40 <1 497 1750 758 885 2953 history1 7 2 0 history1 0.1 7.0 23.9	history2 39 0 43 <1 511 1794 762 921 3122 history2 3 11 0 history2 0.1 7.2 23.4



OIL ANALYSIS REPORT



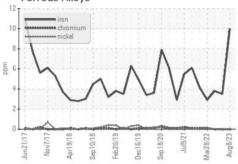


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

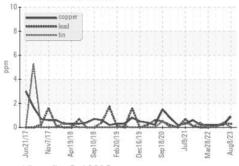
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	14	13.3	12.8	12.8

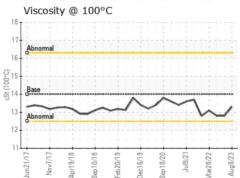
GRAPHS

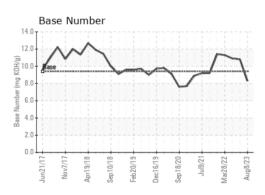
Ferrous Alloys















Laboratory Sample No. Lab Number

Unique Number : 10603133

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0726226 Received : 14 Aug 2023 : 05923186 Diagnosed

: 15 Aug 2023 Diagnostician : Wes Davis

Test Package : CONST (Additional Tests: TBN)

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)

SHERWOOD CONSTRUCTION CO INC

3219 WEST MAY ST WICHITA, KS US 67213

Contact: DOUG KING doug.king@sherwood.net

T: (316)617-3161 F: x: