

OIL ANALYSIS REPORT

Area KANSAS/44/EG - EXCAVATOR 20.517L [KANSAS^44^EG - EXCAVATOR] Component Diesel Engine

142019 Jančili Septili Mayl220 Septi20 Janž221 Dež021 Dež021 Janž22

Sample Rating Trend



MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

Machine Age hrs Client Info 6164 5512 5215 Oil Age hrs Client Info 0 215 4951 Oil Changed Client Info Changed Changed Changed		SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 6164 5512 5215 Oil Age hrs Client Info 0 215 4951 Oil Changed Client Info 0 215 4951 Oil Changed Client Info Changed Changed Sample Status 0 NORMAL NORMAL NORMAL table WC Method >0.2 NEG NEG NEG Glycol WC Method >0.2 NEG NEG NEG WeAR METALS method limit/base current history1 history2 Iron ppm ASTM05185m >20 3 1 -1 Nickel ppm ASTM05185m >2 2 0 0 Aluminum ppm ASTM05185m >2 3 0 -1 Tianium ppm ASTM05185m >2 3 0 -1 Qopper ppm ASTM05185m 2 0 0 <td< th=""><th></th><th>Sample Number</th><th></th><th>Client Info</th><th></th><th>WC0901182</th><th>WC0781244</th><th>WC0779875</th></td<>		Sample Number		Client Info		WC0901182	WC0781244	WC0779875
Oil Age hrs Citent Info 0 215 4951 tion in the Sample Status ImitUbase Changed Changed Changed table CONTAMINATION method imitUbase current history1 history1 table Water WC Method >5 <1.0	to monitor.	Sample Date		Client Info		01 May 2024	02 Jun 2023	21 Feb 2023
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Sulfation Abs/.1mm *ASTM D7415 >30 21.7 22.8 24.7 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 20.2 21.8 22.7		Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	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	0 0 	3 486 1638 751 899 2745 current 10 4 4	44 <1 568 1847 966 1205 3581 <u>history1</u> 7 2 0	41 <1 525 1695 748 922 2892 history2 7 3 0
FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/.1mm*ASTM D7414>2520.221.822.7		Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 0 limit/base >25 >20 limit/base	3 486 1638 751 899 2745 current 10 4 4 4	44 <1 568 1847 966 1205 3581 history1 7 2 0 history1	41 <1 525 1695 748 922 2892 history2 7 3 0 history2
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		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	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7844	0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 486 1638 751 899 2745 current 10 4 4 4 current 0.4 7.6	44 <1 568 1847 966 1205 3581 history1 7 2 0 0 history1 0.3 7.3	41 <1 525 1695 748 922 2892 history2 7 3 0 0 history2 0.2 7.4
		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	ASTM D5185m ASTM D51854 *ASTM D7844 *ASTM D7624	0 0 1 2 25 >25 >20 1 imit/base >3 >20 >30	3 486 1638 751 899 2745 <u>current</u> 10 4 4 4 <u>current</u> 0.4 7.6 21.7	44 <1 568 1847 966 1205 3581 history1 7 2 0 history1 0.3 7.3 22.8	41 <1 525 1695 748 922 2892 history2 7 3 0 history2 0.2 7.4 24.7
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DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

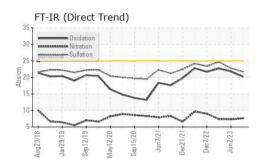
There is no indication of any contamination in the oil.

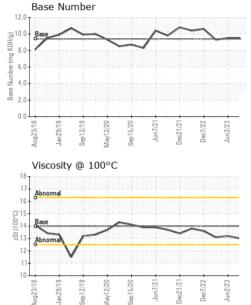
Fluid Condition

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



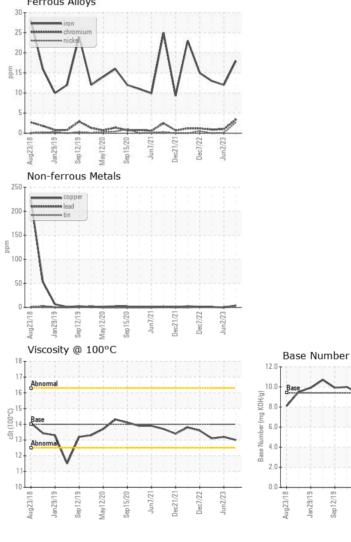
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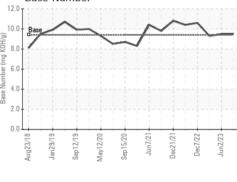




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14	13.0	13.2	13.1
GRAPHS						

Ferrous Alloys





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 SHERWOOD CONSTRUCTION CO INC Sample No. : WC0901182 Received : 17 May 2024 3219 WEST MAY ST Lab Number : 06182392 Tested : 20 May 2024 WICHITA, KS Unique Number : 11033718 Diagnosed : 20 May 2024 - Don Baldridge US 67213 Test Package : CONST (Additional Tests: TBN) Contact: DOUG KING Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. doug.king@sherwood.net * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (316)617-3161 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: x:

Submitted By: JAMES MOORE

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