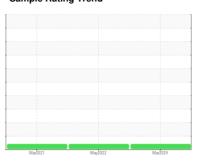


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id

KOMATSU TA-308

Rear Right Final Drive

GEAR OIL SAE 80W90 (--- GAL)

Recommendation

No corrective action is recommended at this time. 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

Fluid Condition

The oil viscosity is lower than normal. Confirm oil type.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0909420	WC0588175	WC0534306
Sample Date		Client Info		12 Mar 2024	16 May 2022	08 Mar 2021
Machine Age	hrs	Client Info		3124	2310	1552
Oil Age	hrs	Client Info		0	2310	1552
Oil Changed	1115	Client Info		N/A	Not Changd	Not Changd
Sample Status		Ciletit iiiio		ATTENTION	ATTENTION	ABNORMAL
<u>'</u>			11 11 11			
CONTAMINATIO	V	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	56	54	38
Chromium	ppm	ASTM D5185m	>10	<1	1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	2	<1
Lead	ppm	ASTM D5185m	>25	0	1	<1
Copper	ppm	ASTM D5185m	>50	0	1	<1
Tin	ppm	ASTM D5185m	>10	0	<1	0
Antimony	ppm	ASTM D5185m	>5			<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	118	117	117
Boron Barium	ppm	ASTM D5185m ASTM D5185m	400 200	118 0	117 0	117 0
Barium				-		
Barium Molybdenum	ppm	ASTM D5185m	200	0	0	0
Barium Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m	200	0 <1	0 2	0 2
Barium Molybdenum Manganese Magnesium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	200	0 <1 2	0 2 2	0 2 2
Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	200 12 12	0 <1 2 13	0 2 2 15	0 2 2 13
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	200 12 12 150	0 <1 2 13 3467	0 2 2 15 3678	0 2 2 13 3650
Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	200 12 12 150 1650	0 <1 2 13 3467 1188	0 2 2 15 3678 1113	0 2 2 13 3650 1132
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	200 12 12 150 1650 125	0 <1 2 13 3467 1188 1405	0 2 2 15 3678 1113 1389	0 2 2 13 3650 1132 1358
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	200 12 12 150 1650 125 22500	0 <1 2 13 3467 1188 1405 6311	0 2 2 15 3678 1113 1389 6027	0 2 2 13 3650 1132 1358 4669
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	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	200 12 12 150 1650 125 22500 limit/base	0 <1 2 13 3467 1188 1405 6311 current	0 2 2 15 3678 1113 1389 6027 history1	0 2 2 13 3650 1132 1358 4669
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	200 12 12 150 1650 125 22500 limit/base >75	0 <1 2 13 3467 1188 1405 6311 current 17	0 2 2 15 3678 1113 1389 6027 history1	0 2 2 13 3650 1132 1358 4669 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	200 12 12 150 1650 125 22500 limit/base >75 >170	0 <1 2 13 3467 1188 1405 6311 current 17 21	0 2 15 3678 1113 1389 6027 history1 16 19	0 2 2 13 3650 1132 1358 4669 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	200 12 12 150 1650 125 22500 limit/base >75 >170 >20	0 <1 2 13 3467 1188 1405 6311 current 17 21 0	0 2 15 3678 1113 1389 6027 history1 16 19	0 2 13 3650 1132 1358 4669 history2 10 15
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	200 12 12 150 1650 125 22500 limit/base >75 >170 >20 limit/base	0 <1 2 13 3467 1188 1405 6311 current 17 21 0 current	0 2 15 3678 1113 1389 6027 history1 16 19 0 history1	0 2 2 13 3650 1132 1358 4669 history2 10 15 1
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method *Visual	200 12 12 150 1650 125 22500 limit/base >75 >170 >20 limit/base	0 <1 2 13 3467 1188 1405 6311 current 17 21 0 current NONE	0 2 15 3678 1113 1389 6027 history1 16 19 0 history1 NONE	0 2 2 13 3650 1132 1358 4669 history2 10 15 1 history2 NONE
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm	ASTM D5185m method ASTM D5185m ASTM D5185m *Visual *Visual	200 12 12 150 1650 125 22500 limit/base >75 >170 >20 limit/base NONE NONE	0 <1 2 13 3467 1188 1405 6311 current 17 21 0 current NONE LIGHT	0 2 15 3678 1113 1389 6027 history1 16 19 0 history1 NONE NONE	0 2 13 3650 1132 1358 4669 history2 10 15 1 history2 NONE NONE
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm	ASTM D5185m method ASTM D5185m ASTM D5185m *Visual *Visual *Visual	200 12 12 150 1650 125 22500 limit/base >75 >170 >20 limit/base NONE NONE NONE	0 <1 2 13 3467 1188 1405 6311 current 17 21 0 current NONE LIGHT NONE	0 2 15 3678 1113 1389 6027 history1 16 19 0 history1 NONE NONE NONE	0 2 13 3650 1132 1358 4669 history2 10 15 1 history2 NONE NONE NONE
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm	ASTM D5185m Method ASTM D5185m *Visual *Visual *Visual *Visual	200 12 12 150 1650 125 22500 limit/base >75 >170 >20 limit/base NONE NONE NONE	0 <1 2 13 3467 1188 1405 6311 current 17 21 0 current NONE LIGHT NONE NONE	0 2 2 15 3678 1113 1389 6027 history1 16 19 0 history1 NONE NONE NONE NONE	0 2 13 3650 1132 1358 4669 history2 10 15 1 history2 NONE NONE NONE
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm	ASTM D5185m METHOD *Visual *Visual *Visual *Visual *Visual *Visual	200 12 12 150 1650 125 22500 limit/base >75 >170 >20 limit/base NONE NONE NONE NONE NONE	0 <1 2 13 3467 1188 1405 6311 current 17 21 0 current NONE LIGHT NONE NONE NONE NONE	0 2 2 15 3678 1113 1389 6027 history1 16 19 0 history1 NONE NONE NONE NONE NONE NONE	0 2 2 13 3650 1132 1358 4669 history2 10 15 1 history2 NONE NONE NONE NONE NONE NONE
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL	ppm	ASTM D5185m method *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	200 12 12 150 1650 125 22500 limit/base >75 >170 >20 limit/base NONE NONE NONE NONE NONE NONE NONE	0 <1 2 13 3467 1188 1405 6311 current 17 21 0 current NONE LIGHT NONE NONE NONE NONE NONE	0 2 2 15 3678 1113 1389 6027 history1 16 19 0 history1 NONE NONE NONE NONE NONE NONE NONE NON	0 2 2 13 3650 1132 1358 4669 history2 10 15 1 history2 NONE NONE NONE NONE NONE NONE NONE NON

Emulsified Water

scalar *Visual

scalar *Visual

>0.2

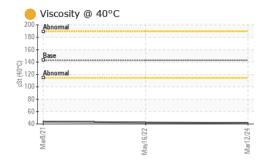
NEG

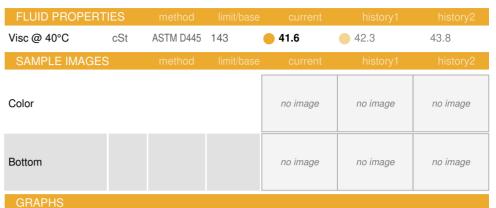
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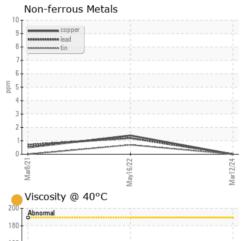


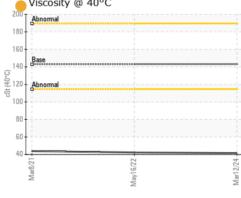
OIL ANALYSIS REPORT





Ferrous Alloys







Certificate 12367

Laboratory Sample No.

Lab Number : 06147781

: WC0909420

Unique Number : 10977859 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Apr 2024 Tested : 15 Apr 2024

Diagnosed

: 16 Apr 2024 - Don Baldridge

1811 HOLLINS RD. ROANOKE, VA US 24012

E.C. PACE CO.

Contact: EDDIE SECO ESECO@ECPACE.COM T: (276)266-5849

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)

F: (540)343-6909