

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **CR143 - T-241** Component **Transfer Case** Fluid **GEAR OIL SAE 90W140 (--- QTS)**

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 90W140. Please confirm. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

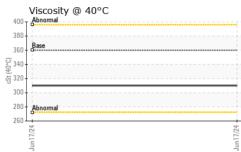
Fluid Condition

The condition of the oil is acceptable for the time in service.

Sample Date Client Info 17 Jun 2024 Machine Age mis Client Info 0 Oll Age mis Client Info 0 Sample Status Client Info N/A CONTAMINATION method Iimt/base current History1 History2 Water WC Method >0.2 NEG VEAR METALS method Iimt/base current History1 History2 Krito Tiston ppm ASTM D5185m >550 13 Nickel ppm ASTM D5185m >55 <11 Nickel ppm ASTM D5185m >45 2 Lead ppm ASTM D5185m >55 <11 Aumium ppm ASTM D5185m >5 <11 Vanadium	SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Date Client Info 17 Jun 2024 Machino Age mis Client Info 0 Oil Age mis Client Info 0 Oil Changed Client Info N/A Sample Status Client Info N/A CONTAMINATION method limi/base current history1 History2 Water WC Method >0.2 NEG Norker ppm ASTM D5185m S5 <1	Sample Number		Client Info		WC0941897		
Machine AgemisClient Info0Di AgeMisClient InfoN/ASample StatusIIN/ACONTAMINATIONWethenN/ANEGWetarWC Method>0.2NEGWEAR METALSWC Method>0.2NEGWEAR METALSWC Method>0.2NEGNickelppmASTM D5185m>5<-1	Sample Date		Client Info		17 Jun 2024		
Dil Age mis Client Info 0 Sample Status Client Info N/A CONTAMINATION method imil/base current history1 history2 Water WC Method >0.2 NEG WEAR METALS method imil/base current history1 history2 Vickel ppm ASTM D5165n >500 13 Silver ppm ASTM D5165n >55 <1	Machine Age	mls	Client Info		0		
Dil Changed Client Info N/A Sample Status I Imil/base current History1 History2 Water WC Method >0.2 NEG WEAR METALS method imil/base current History1 History2 Water WC Method >0.2 NEG WEAR METALS method imil/base current History1 History2 VEAR METALS method imil/base current History1 Kickel ppm ASTM D5185m >5 <1	Oil Age	mls	Client Info		0		
CONTAMINATION method imit/base current history1 history2 Water WC Method >0.2 NEG WEAR METALS method imit/base current history1 history2 fron ppm ASTM D5185m >500 13 Nickel ppm ASTM D5185m >55 <1	Oil Changed		Client Info		N/A		
Water WC Method >0.2 NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM 05166m >500 13 Chromium ppm ASTM 05166m >5 <1	Sample Status				NORMAL		
WEAR METALS method limit/base current history1 history2 iron ppm ASTM D5185m >500 13 Chromium ppm ASTM D5185m >5 <1	CONTAMINATION	١	method	limit/base	current	history1	history2
ron ppm ASTM D5185m >500 13 Chromium ppm ASTM D5185m >5 <1	Water		WC Method	>0.2	NEG		
ppm ASTM D5185m >5 <1 Nickel ppm ASTM D5185m >5 <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m >5 <1 Titanium ppm ASTM D5185m 0 Sliver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >150 -1 Copper ppm ASTM D5185m >100 <1	Iron	ppm	ASTM D5185m	>500	13		
Titanium ppm ASTM D5185m <1 Silver ppm ASTM D5185m >45 2 Aluminum ppm ASTM D5185m >45 2 Aluminum ppm ASTM D5185m >150 <1	Chromium	ppm	ASTM D5185m	>5	<1		
Silver ppm ASTM D5185m >45 2 Aluminum ppm ASTM D5185m >45 2 Aluminum ppm ASTM D5185m >150 <1	Nickel	ppm	ASTM D5185m	>5	<1		
Aluminum ppm ASTM D5185m >45 2 Lead ppm ASTM D5185m >150 <1	Titanium	ppm	ASTM D5185m		<1		
Lead ppm ASTM D5185m >150 <1 Copper ppm ASTM D5185m >100 <1	Silver	ppm	ASTM D5185m		0		
Copper ppm ASTM D5185m >100 <1 Tin ppm ASTM D5185m >5 <1	Aluminum	ppm	ASTM D5185m	>45	2		
Tin ppm ASTM D5185m >5 <1 Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m <1	Lead		ASTM D5185m	>150	<1		
VanadiumppmASTM D5185m00CadmiumppmASTM D5185m<1	Copper	ppm	ASTM D5185m	>100	<1		
CadmiumppmASTM D5185m<1ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m400232BariumppmASTM D5185m2000MolybdenumppmASTM D5185m200ManganeseppmASTM D5185m121MagnesiumppmASTM D5185m124CalciumppmASTM D5185m15093CalciumppmASTM D5185m1650845PhosphorusppmASTM D5185m2250021838SulfurppmASTM D5185m22SolfumppmASTM D5185m>852SolfumppmASTM D5185m>20<1	Tin	ppm	ASTM D5185m	>5	<1		
ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m400232BariumppmASTM D5185m2000MolybdenumppmASTM D5185m121ManganeseppmASTM D5185m124MagnesiumppmASTM D5185m124CalciumppmASTM D5185m15093PhosphorusppmASTM D5185m1650845ZincppmASTM D5185m12545SulfurppmASTM D5185m2250021838CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>852VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONEVISUALrethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONEYellow Metalscalar*VisualNONENONESilitscalar*VisualNONENONESilitscalar*VisualNONENONEDebrisscalar*Vi	Vanadium	ppm	ASTM D5185m		0		
Boron ppm ASTM D5185m 400 232 Barium ppm ASTM D5185m 200 0 Molybdenum ppm ASTM D5185m 12 1 Manganese ppm ASTM D5185m 12 4 Calcium ppm ASTM D5185m 150 93 Calcium ppm ASTM D5185m 150 93 Calcium ppm ASTM D5185m 1650 845 Calcium ppm ASTM D5185m 125 45 Sulfur ppm ASTM D5185m 22500 21838 Solium ppm ASTM D5185m >20 Potassium ppm ASTM D5185m >20 <1	Cadmium	ppm	ASTM D5185m		<1		
Barium ppm ASTM D5185m 200 0 Manganese ppm ASTM D5185m 12 1 Magnesium ppm ASTM D5185m 12 4 Calcium ppm ASTM D5185m 12 4 Calcium ppm ASTM D5185m 150 93 Phosphorus ppm ASTM D5185m 1650 845 Zinc ppm ASTM D5185m 125 45 Sulfur ppm ASTM D5185m 22500 21838 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >85 2 Potassium ppm ASTM D5185m >20 <1 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silit scalar *Visual NONE NONE Sand/Dirit scalar *Visual NONE NONE Sand/Dirit scalar *Visual NONE NONE Silit NONE Silit NONE	ADDITIVES		method	limit/base	current	history1	history2
MolybdenumppmASTW D5185m121ManganeseppmASTW D5185m124MagnesiumppmASTW D5185m124CalciumppmASTW D5185m15093CalciumppmASTW D5185m1650845PhosphorusppmASTW D5185m12545ZincppmASTW D5185m2250021838SulfurppmASTW D5185m2250021838SoliconppmASTW D5185m>852PotassiumppmASTW D5185m>20<1	Boron	ppm	ASTM D5185m	400	232		
ManganeseppmASTM D5185m<1MagnesiumppmASTM D5185m124CalciumppmASTM D5185m15093PhosphorusppmASTM D5185m1650845ZincppmASTM D5185m12545SulfurppmASTM D5185m2250021838CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>852SodiumppmASTM D5185m>20<1	Barium	ppm	ASTM D5185m	200	0		
MagnesiumppmASTM D5185m124CalciumppmASTM D5185m15093PhosphorusppmASTM D5185m1650845ZincppmASTM D5185m12545SulfurppmASTM D5185m2250021838CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>852SodiumppmASTM D5185m>20<1	Molybdenum	ppm	ASTM D5185m	12	1		
CalciumppmASTM D5185m15093PhosphorusppmASTM D5185m1650845ZincppmASTM D5185m12545SulfurppmASTM D5185m2250021838SulfurppmASTM D5185m2250021838CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>852SodiumppmASTM D5185m>20<1	Manganese	ppm	ASTM D5185m		<1		
PhosphorusppmASTM D5185m1650845ZincppmASTM D5185m12545SulfurppmASTM D5185m2250021838CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>852SodiumppmASTM D5185m>20<1	Magnesium	ppm	ASTM D5185m	12	4		
ZincppmASTM D5185m12545SulfurppmASTM D5185m2250021838CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>852SodiumppmASTM D5185m>852PotassiumppmASTM D5185m>20<1	Calcium	ppm	ASTM D5185m	150	93		
SulfurppmASTM D5185m2250021838CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>852SodiumppmASTM D5185m>20<1	Phosphorus	ppm	ASTM D5185m	1650	845		
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>852SodiumppmASTM D5185m2PotassiumppmASTM D5185m>20<1	Zinc	ppm	ASTM D5185m	125	45		
SiliconppmASTM D5185m>852SodiumppmASTM D5185m2PotassiumppmASTM D5185m>20<1	Sulfur	ppm	ASTM D5185m	22500	21838		
SodiumppmASTM D5185m2PotassiumppmASTM D5185m>20<1	CONTAMINANTS		method	limit/base	current	history1	history2
PotassiumppmASTM D5185m>20<1VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG	Silicon	ppm	ASTM D5185m	>85	2		
VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG	Sodium	ppm	ASTM D5185m		2		
White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG	Potassium	ppm	ASTM D5185m	>20	<1		
Yellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG	VISUAL		method	limit/base	current	history1	history2
Precipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG	White Metal	scalar	*Visual	NONE	NONE		
Siltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG	Yellow Metal	scalar	*Visual	NONE	NONE		
Debrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG	Precipitate	scalar	*Visual	NONE	NONE		
Sand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG	Silt	scalar	*Visual	NONE	NONE		
Appearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG	Debris	scalar	*Visual	NONE	NONE		
Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.2 NEG	Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >0.2 NEG	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
Free Water scalar *Visual NEG	Emulsified Water	scalar	*Visual	>0.2	NEG		



OIL ANALYSIS REPORT



FLUID PROPER	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	360	310		
SAMPLE IMAGE	ES	method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image
GRAPHS			L. L			
Ferrous Alloys	als		- 17/2/ul			
: WearCheck USA - 5 : WC0941897 : 06212105 : 11084969 : CONST ; contact Customer Ser	Rece Teste Diagr	ived : 1 ed : 18 nosed : 18	7 Jun 2024 3 Jun 2024 3 Jun 2024 - V	Ves Davis	IS-MARTIN EMEF FRIEN Contact: DOUC JHY@SIDDONS	4401 REX F NDSWOOD, US 775 GLAS DLOU

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)

Report Id: SIDFRI [WUSCAR] 06212105 (Generated: 06/20/2024 14:34:23) Rev: 1

Certificate L2367

Contact/Location: DOUGLAS DLOUHY - SIDFRI

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